

Targeted Sequencing Gene List

Familial Targeted Sequencing (3005867) and Familial Targeted Sequencing, Fetal (3005869)

Not all genes/variants are covered by this assay; see below for the list of available genes and regions.

- For **fetal** testing requests, contact an ARUP genetic counselor (800-242-2787 ext. 2141) to determine if prenatal testing is offered for the familial disorder.
- Testing will not proceed if the requested variant/gene is not covered.
 - Contact an ARUP genetic counselor to determine if the variant(s) of interest are detectable by this assay and confirm if there are gene-specific technical considerations.
- Large deletions/duplications/inversions are not assessed.
- The common *CFTR* F508del, 5T/7T/9T or TG repeat variants (IVS8) are not tested by this assay; contact a genetic counselor to determine other testing options.

NOTES: The information in this table is based on files downloaded from HGNC and OMIM in February 2023.

Unless specific transcript(s) are listed in the gene column, coding exons are covered for all RefSeq transcripts except those detailed below (primary transcript in bold).

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
AARS1			601065	AARS, AlaRS, CMT2N
ABAT	NM_001386615.1:6	NM_001386616.1:16	137150	GABA-T, GABAT
ABCB7			300135	ABC7, ASAT, Atm1p, EST140535
ABCC8		NM_001351295.2:14	600509	ABC36, HHF1, HI, HRINS, MRP8, PHHI, SUR, SUR1, TNDM2
ABCC9			601439	CMD10, SUR2
ABCD1			300371	ALD, ALDP, AMN, adrenoleukodystrophy
ABCD3			170995	PMP70, PXMP1, ZWS2
ABCD4		NM_001353592.2:17 NM_001353594.2:16 NM_001353599.2:17 NM_001353600.2:17 NM_001353601.2:16 NM_001353606.2:16 NM_001353607.2:15 NM_001353608.2:16 NM_001353609.2:17 NM_001353610.2:14 NM_020325.3:18	603214	EST352188, P70R, PMP69, PXMP1L
ACAD9			611103	MGC14452, NPD002

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
ACADM			607008	ACAD1, MCAD, MCADH
ACADS			606885	ACAD3, SCAD
ACADVL (NM_000018)			609575	ACAD6, LCACD, VLCAD
ACAT1		NM_001386677.1:12	607809	ACAT, THIL
ACBD5	NM_001352568.1:6 NM_001352569.1:6 NM_001352570.1:13 NM_001352571.1:5 NM_001352573.1:6 NM_001352574.2:6 NM_001352575.2:6 NM_001352576.1:6 NM_001352581.1:6 NM_001352585.1:5 NM_001352586.1:5	NM_001352568.1:1 NM_001352572.1:1	616618	DKFZp434A2417, KIAA1996
ACD			609377	Pip1, Ptop, Tint1, Tpp1
ACOX1			609751	PALMCOX
ACSF3			614245	
ACTA2			102620	ACTSA
ACTC1			102540	ACTC, CMD1R
ACTN2			102573	
ACVRL1			601284	ACVRLK1, ALK1, HHT, HHT2, ORW2
ADA			608958	ADA1
ADA2			607575	ADGF, CECR1, IDGFL
ADGRG1			604110	GPR56, TM7LN4, TM7XN1
ADK			102750	AK
ADSL	NM_001363840.2:14		608222	
AGL			610860	GDE
AGPS			603051	ADAP-S, ADAS, ADHAPS, ADPS, ALDHPSY
AGXT			604285	AGT, AGT1, AGXT1, PH1, SPAT, SPT, Ser-PyrAT, TLH6
AHCY			180960	AdoHcyase, SAHH
AICDA			605257	AID, ARP2, CDA2, HIGM2
AIFM1			300169	AIF, AUNX1, CMTX4, DFNX5, NAMSD, PDCD8
AK1			103000	
AKT1			164730	AKT, PKB, PRKBA, RAC, RAC-alpha
ALAS2			301300	ALAS-E, ASB
ALDH5A1			610045	SSADH, SSDH
ALDH7A1			107323	ATQ1, EPD, PDE
ALDOA			103850	
ALDOB			612724	

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ALG1			605907	CDG1K, HMAT1, HMT-1, Mat-1
ALG13		NM_001099922.3:24 NM_001257231.1:24	300776	CDG1S, CXorf45, FLJ23018, GLT28D1, MDS031, TDRD13, YGL047W
ALG3			608750	CDGS4, D16Erd36e, NOT56L, Not56
ALG6			604566	
ALG8			608103	MGC2840
ALG9	NM_001352415.1:16 NM_001352416.1:16 NM_001352417.1:17 NM_001352419.1:16 NM_001352420.2:15 NM_001352421.2:15		606941	DIBD1
ALK			105590	ALK1D246
ALMS1			606844	KIAA0328
ALPK3			617608	KIAA1330, MAK, Midori
ALPL			171760	HOPS, TNALP, TNAP, TNSALP
AMACR			604489	P504S, RACE
AMN			605799	amnionless
AMT			238310	GCST, NKH
ANK1			612641	ANK, SPH1
ANKRD11	NM_013275.6:13 NM_001256182.2:14 NM_001256183.2:13	NM_013275.6:9 NM_001256182.2:10 NM_001256183.2:9	611192	ANCO-1, ANCO1, LZ16, T13
ANKRD26			610855	KIAA1074, THC2
ANKS6	NM_173551.5:1		615370	ANKRD14, FLJ36928, NPHP16, SAMD6
ANO5			608662	GDD1, LGMD2L, TMEM16E
AP3B2	NM_001348440.1:5		602166	NAPT8
APC (NM_000038, NM_001127511 Exon 1b only)			611731	DP2, DP2.5, DP3, PPP1R46
APOB			107730	
APP	NM_001136016.3:1		104760	AD1, alpha-sAPP
APPL1			604299	APPL
ARFGEF2			605371	BIG2
ARG1			608313	
ARHGEF9	NM_001353923.1:1		300429	KIAA0424, PEM-2
ARL2BP			615407	BART, BART1, RP66
ARSL			300180	ARSE, CDPX, CDPX1
ARV1	NM_001346992.2:4		611647	
ARX	NM_139058.3: polyalanine repeat expansion in exon 2		300382	CT121, EIEE1, ISSX, MRX29, MRX32, MRX33,

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				MRX36, MRX38, MRX43, MRX54, MRX76, MRX87, MRXS1, PRTS
ASAH1			613468	AC, ACDase, ASAH, FLJ21558, PHP32
ASNS			108370	
ASS1			603470	ASS, CTLN1
ASXL1	NM_001363734.1:1		612990	KIAA0978
ATL1			606439	AD-FSP, FSP1, SPG3, SPG3A
ATM			607585	ATA, ATC, ATD, ATDC, TEL1, TELO1
ATN1	NM_001007026.2: (CAG) _n repeat expansion in exon 5		607462	B37, D12S755E, DRPLA
ATP1A1			182310	
ATP1A3			182350	DYT12
ATP6AP1			300197	16A, ATP6IP1, ATP6S1, Ac45, CF2, ORF, VATPS1, XAP-3, XAP3
ATP6AP2			300556	APT6M8-9, ATP6IP2, ATP6M8-9, M8-9, PRR, RENR
ATP7A			300011	MNK
ATP7B (NM_000053)	NM_000053.4:c.-436_-422del15 (Sardinian founder variant)		606882	WND
ATRX			300032	JMS, MRX52, RAD54, XH2, XNP
AXIN2			604025	DKFZp781B0869, MGC126582
B2M			109700	
B3GALNT1	NM_001349162.1:2-5 NM_001349163.1:2-5	NM_001349162.1:6 NM_001349163.1:6	603094	B3GALANT1, B3GALT3, GLOB, beta3Gal-T3, galT3
B3GAT3			606374	GlcAT-I
B3GLCT			610308	B3GALTL, B3GTL, B3Glc-T
B3GNT2			605581	B3GN-T1, B3GN-T2, B3GNT-2, B3GNT1, BETA3GNT
B4GALNT1			601873	GALGT, SPG26, beta1-4GalNAc-T
B4GALT1	NM_001378497.1:3		137060	GGTB2, beta4Gal-T1
B4GALT7			604327	XGALT-1, beta4Gal-T7
B9D1			614144	B9, EPPB9, MKS9, MKSR-1
B9D2			611951	MGC4093, MKS10, MKSR-2
BAAT			602938	BAT
BACE1			604252	BACE

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
BAG3			603883	
BANF1			603811	BAF
BAP1			603089	KIAA0272, UCHL2, hucep-6
BARD1			601593	
BAX			600040	BCL2L4
BAZ1A			605680	ACF1, WALp1, WCRF180, hACF1
BBIP1			613605	BBIP10, BBS18, NCRNA00081, bA348N5.3
BBS1			209901	FLJ23590
BBS10			610148	C12orf58, FLJ23560
BBS12			610683	C4orf24, FLJ35630, FLJ41559
BBS2			606151	BBS
BBS4			600374	
BBS5			603650	DKFZp762I194
BBS7			607590	BBS2L1, FLJ10715
BBS9	NM_001348041.4:23 NM_001362679.1:22		607968	B1, PTHB1
BCAM			612773	CD239, LU
BCAT2			113530	BCAM, BCATm, BCT2
BCHE			177400	CHE1, CHE2, E1
BCKDK			614901	
BCL10			603517	CARMEN, CIPER, CLAP, c-E10, mE10
BCL11A			606557	BCL11A-L, BCL11A-S, BCL11A-XL, CTIP1, EVI9, HBFQTL5, SMARCM1, ZNF856
BCL2L11			603827	BIM, BOD, BimEL, BimL, BimS
BCL7A			601406	BCL7, SMARCJ1
BCL9			602597	
BCL9L			609004	B9L, Bcl9-2, DLNB11
BCO1			605748	BCDO, BCDO1, BCMO, BCMO1, FLJ10730
BCOR			300485	FLJ20285, KIAA1575
BCORL1			300688	CXorf10, FLJ11362
BDNF			113505	
BDP1			607012	HSA238520, KIAA1241, KIAA1689, TAF3B1, TFC5, TFIIIB150, TFIIIB90, TFNR
BEAN1			612051	SCA31
BFSP1			603307	CP115, CP94, LIFL-H, filensin

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
BFSP2			603212	CP47, CP49, LIFL-L, phakinin
BGN			301870	DSPG1, SLRR1A
BICC1			614295	
BICD2			609797	KIAA0699
BLK			191305	MGC10442
BLM			604610	BS, RECQ2, RECQL3
BLMH			602403	BH
BLNK			604515	BASH, BLNK-s, Ly57, SLP-65, SLP65, bca
BLOC1S3			609762	BLOS3, HPS8
BLOC1S6			604310	HPS9, PA, PLDN
BLVRA			109750	BLVR
BMP1			112264	BMP-1, PCOLC
BMP15			300247	GDF9B
BMP2			112261	BMP2A
BMP4	NM_001347912.1:1-2		112262	BMP2B
BMP7			112267	OP-1
BMPER			608699	CRIM3, Cv2
BMPR1A			601299	ACVRLK3, ALK3, CD292
BMPR1B			603248	ALK6, CDw293
BMPR2			600799	BMPR-II, BMPR3, BRK-3, PPH1, T-ALK
BMS1	NM_014753.4:5		611448	BMS1L, KIAA0187
BNC2			608669	BSN2, FLJ20043
BOD1			616745	FAM44B
BOLA3			613183	
BPGM			613896	
BRAF	NM_004333.6:5, 18 NM_001354609.2:5, 18-19 NM_001374244.1:5, 10, 19 NM_001374258.1:5, 10, 19-20 NM_001378467.1:5, 18-19 NM_001378468.1:5, 18 NM_001378469.1:5, 18 NM_001378470.1:4, 17-18 NM_001378471.1:5, 17-18 NM_001378472.1:5, 18-19 NM_001378473.1:5, 18 NM_001378474.1:5, 18 NM_001378475.1:4, 17-18		164757	BRAF-1, BRAF1
BRAT1		NM_001350626.2:14	614506	BAAT1, C7orf27, MGC22916
BRCA1 (NM_007294)			113705	BRCC1, FANCS, PPP1R53, RNF53
BRCA2 (NM_000059)			600185	BRCC2, FACD, FAD, FAD1, FANCD, FANCD1, XRCC11

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
BRCC3			300617	BRCC36, C6.1A, CXorf53
BRD2			601540	BRD2-IT1, D6S113E, FSRG1, KIAA9001, NAT, RING3
BRF1			604902	BRF, GTF3B, TAF3B2, TAF3C, TFIIIB90, hBRF
BRIP1			605882	BACH1, FANCF, OF
BRPF1			602410	BR140
BRWD3			300553	FLJ38568, MRX93
BSCL2			606158	GNG3LG, SPG17, seipin
BSND			606412	BART, DFNB73
BTBD9			611237	KIAA1880, dJ322112.1
BTD (NM_000060, NM_001370658)	NM_000060:1		609019	
BTG2			601597	APR01, MGC126063, MGC126064, PC3, TIS21
BTK			300300	AGMX1, ATK, IMD1, PSCTK1, XLA
BUB1			602452	BUB1A, BUB1L, hBUB1
BUB1B			602860	BUBR1, Bub1A, MAD3L, SSK1
BUB3			603719	BUB3L
BVES			604577	HBVES, POP1, POPDC1
C11orf65	NM_001351110.2:8			MFI, MGC33948
C12orf4			616082	
C12orf57			615140	C10, GRCC10
C19orf12			614297	DKFZP762D096, MGC10922, MPAN, NBIA4, SPG43
C1GALT1C1			300611	C1GALT2, COSMC
C1QA			120550	
C1QB			120570	
C1QBP			601269	HABP1, SF2p32, gC1Q-R, gC1qR, p32
C1QC			120575	C1QG
C1QTNF5			608752	CTRP5, DKFZp586B0621, LORD
C1R	NM_001354346.2:1		613785	
C1S			120580	
C2			613927	
C2CD3			615944	DKFZP586P0123
C3			120700	ARMD9, C3a, C3b, CPAMD1
C3AR1			605246	AZ3B, C3AR
C4BPA			120830	C4BP
C4BPB			120831	C4BP

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
C5			120900	C5a, C5b, CPAMD4
C5AR1			113995	C5A, C5AR, C5R1, CD88
C5AR2			609949	C5L2, GPR77
C6			217050	
C7			217070	
C8A			120950	
C8B			120960	
C8G			120930	
C8orf34				VEST1, vest-1
C9			120940	
CA1			114800	Car1
CA12			603263	HsT18816
CA2			611492	CA-II, CAII, Car2
CA8			114815	CALS, CARP
CAB39			612174	CGI-66, MO25
CABIN1			604251	KIAA0330, PPP3IN
CABP4			608965	CSNB2B
CACNA1A			601011	APCA, CACNL1A4, Cav2.1, EA2, FHM, HPCA, MHP, MHP1, SCA6
CACNA1C			114205	CACH2, CACN2, CACNL1A1, CCHL1A1, Cav1.2, LQT8, TS
CACNA1D			114206	CACH3, CACN4, CACNL1A2, CCHL1A2, Cav1.3
CACNA1E			601013	BII, CACH6, CACNL1A6, Cav2.3
CACNA1G			604065	Cav3.1, NBR13
CACNA1H			607904	Cav3.2
CACNA1S			114208	CACNL1A3, Cav1.1, HOKPP, MHS5, hypoPP
CACNA2D2			607082	KIAA0558, alpha2delta-2
CACNA2D4			608171	alpha2delta-4
CACNB4			601949	EJM4
CACNG2			602911	MGC138502, MGC138504, stargazin
CAD			114010	GATD4
CADM1			605686	BL2, IGSF4, IGSF4A, NECL2, Necl-2, RA175, ST17, SYNCAM, SYNCAM1, TSLC1
CADPS2			609978	CAPS2
CALCOCO2			604587	MGC17318, NDP52
CALHM1			612234	FAM26C

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
CALM1	NM_001363670.1:1		114180	CALML2, CAMI, DD132, PHKD, PHKD1
CALM2			114182	CAMII, PHKD, PHKD2
CALM3			114183	PHKD, PHKD3
CALR			109091	CRT, FLJ26680, RO, SSA, cC1qR
CALR3			611414	CRT2, CT93, FLJ25355, MGC26577
CALU			603420	
CAMK2G	NM_001367516.1:20 NM_001367526.1:18		602123	CAMKG
CAMTA1	NM_001349609.2:20 NM_001349610.2:20 NM_001349612.2:19 NM_001349613.1:1 NM_001349614.1:12 NM_001349615.2:10 NM_001349616.2:10 NM_001349619.2:10 NM_001349620.1:12 NM_001349621.1:12 NM_001349622.2:10 NM_001349627.2:2	NM_001349609.2:23 NM_001349613.1:12 NM_001349614.1:15 NM_001349615.2:13 NM_001349621.1:15 NM_001349622.2:13 NM_001349623.1:14 NM_001349624.3:12	611501	KIAA0833
CANT1			613165	SCAN-1, SHAPY
CAPN1			114220	CANP, CANPL1, muCANP, muCL
CAPN10			605286	
CAPN5			602537	ADNIV, HTRA3, VRNI, nCL-3
CARD11			607210	BIMP3, CARMA1
CARD14			607211	BIMP2, CARMA2, PSORS2
CARD8	NM_001351786.2:5 NM_001351787.1:11		609051	CARDINAL, Dakar, KIAA0955, NDPP, TUCAN
CARD9			607212	
CARS2	NM_001352253.2:9		612800	FLJ12118
CARTPT			602606	CART
CASK			300172	CAGH39, FGS4, LIN2, TNRC8
CASP10			601762	FLICE-2, MCH4
CASP14			605848	MGC119078, MGC119079, MICE
CASP2			600639	ICH1, MGC2181, NEDD2, PPP1R57
CASP7			601761	CMH-1, ICE-LAP3, MCH3
CASP8	NM_001400645.1:6		601763	Casp-8, FLICE, MACH, MCH5
CASQ1			114250	CASQ, CSQ1, PDIB1
CASQ2			114251	PDIB2

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CASR			601199	FHH, GPRC2A, HHC, HHC1, NSHPT
CAST			114090	
CAT			115500	
CATSPER1			606389	CATSPER
CAV1			601047	CAV
CAVIN1			603198	CGL4, PTRF, cavin-1
CAVIN4			617714	MURC, cavin-4
CBL			165360	CBL2, RNF55, c-Cbl
CBLB			604491	Cbl-b, RNF56
CBLC			608453	CBL-3, CBL-SL, RNF57
CBLIF			609342	GIF, IF, IFMH, INF, TCN3
CBR3			603608	SDR21C2
CBS	NM_001321072.1:1		613381	HIP4
CBX2			602770	CDCA6, M33, MGC10561
CC2D1A			610055	Aki-1, FLJ20241, Freud-1, Lgd2, MRT3, TAPE
CC2D2A			612013	JBTS9, KIAA1345, MKS6
CCBE1			612753	FLJ30681, KIAA1983
CCDC103	NM_001258397.1:4		614677	CILD17, FLJ13094, FLJ34211, PR46b
CCDC115			613734	FLJ30131, MGC12981, ccp1
CCDC141			616031	CAMD1, FLJ39502
CCDC170				C6orf97, FLJ23305, bA282P11.1
CCDC18				NY-SAR-41
CCDC22			300859	CXorf37, JM1
CCDC28B			610162	MGC1203, RP4-622L5.5
CCDC39			613798	CFAP59, CILD14, DKFZp434A128, FAP59
CCDC40	NM_001243342.1:18		613799	CFAP172, CILD15, FAP172, FLJ20753, FLJ32021, KIAA1640
CCDC65			611088	CFAP250, CILD27, DRC2, FAP250, FLJ35732, NYD-SP28
CCDC78		NM_001378030.1:14 NM_001378031.1:12 NM_001378033.1:4, 10	614666	C16orf25, FLJ34512
CCDC8			614145	3M3, DKFZp564K0322, PPP1R20
CCDC88A			609736	APE, FLJ10392, GIV, GRDN, HkRP1, KIAA1212
CCDC88C			611204	DAPLE, HkRP2, KIAA1509, SCA40

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
CCHCR1		NM_001394641.1:1	605310	C6orf18, HCR
CCL11			601156	MGC22554, SCYA11, eotaxin
CCL2			158105	GDCF-2, HC11, MCAF, MCP-1, MCP1, MGC9434, SCYA2, SMC-CF
CCM2	NM_001363458.2:7 NM_001363459.2:6		607929	C7orf22, MGC4607, OSM
CCN1			602369	CYR61, GIG1, IGFBP10
CCN6			603400	WISP-3, WISP3
CCNA2			123835	CCN1, CCNA
CCND1			168461	BCL1, D11S287E, PRAD1, U21B31
CCNF			600227	FBX1, FBXO1
CCNO			607752	CCNU, FLJ22422, UDG2, UNG2
CCR1			601159	CD191, CKR-1, CMKBR1, MIP1aR, SCYAR1
CCS			603864	
CCT2			605139	Cctb
CCT5			610150	KIAA0098
CCT7			605140	Ccth, Nip7-1
CD109			608859	CPAMD7, DKFZp762L1111, FLJ38569
CD151			602243	PETA-3, RAPH, SFA-1, TSPAN24
CD164			603356	DFNA66, MGC-24, MGC-24v, MUC-24
CD19			107265	
CD2			186990	SRBC
CD207			604862	CLEC4K, Langerin
CD247	NM_001378515.1:2 NM_001378516.1:2		186780	CD3-ZETA, CD3H, CD3Q, CD3Z, CD3ZETA, TCRZ
CD27			186711	S152, TNFRSF7, Tp55
CD2AP			604241	CMS
CD320			606475	8D6, 8D6A, TCII-R, TCN2R, TCbIR, sCD320
CD33			159590	FLJ00391, SIGLEC-3, SIGLEC3, p67
CD36			173510	FAT, GP3B, GP4, GPIIB, GPIV, SCARB3
CD3D			186790	CD3-DELTA, CD3DELTA, T3D
CD3E			186830	CD3-epsilon, CD3epsilon
CD3G			186740	CD3-GAMMA, CD3GAMMA
CD4			186940	Leu-3, T4

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
CD40			109535	Bp50, TNFRSF5, p50
CD40LG			300386	CD154, CD40-L, CD40L, HIGM1, HIGM1, IMD3, T-BAM, TNFSF5, TRAP, gp39, hCD40L
CD46			120920	MCP, MGC26544, MIC10, TLX, TRA2.10
CD55			125240	CR, CROM, DAF, TC
CD59			107271	16.3A5, EJ16, EJ30, EL32, G344, HRF20, MACIF, MIC11, MIN1, MIN2, MIN3, MIRL, MSK21, p18-20
CD70			602840	CD27-L, CD27L, CD27LG, TNFSF7
CD79A			112205	IGA, IGAalpha, Ig-alpha, MB-1, MB1
CD79B			147245	B29, IGB, Ig-beta, Igbeta
CD8A			186910	CD8, CD8alpha, p32
CD93			120577	C1QR1, C1qR(P), C1qRP, CDw93, ECSM3, MXRA4, dJ737E23.1
CD96			606037	TACTILE
CDA			123920	CDD
CDAN1			607465	CDA-I, CDAI
CDC45	NM_001369291.1:1		603465	CDC45L, CDC45L2
CDC5L			602868	CDC5, CEF1, PCDC5RP, hCDC5
CDC6			602627	CDC18L
CDC73			607393	C1orf28, FIHP, HRPT1, HRPT2, parafibromin
CDCA7			609937	FLJ14736, JPO1
CDCA7L			609685	JPO2, R1, RAM2
CDH1			192090	CD324, UVO, uvomorulin
CDH11			600023	CAD11, OB
CDH13			601364	CDHH
CDH15			114019	CDH14, CDH3
CDH16			603118	
CDH2			114020	CD325, CDHN, NCAD
CDH3			114021	CDHP, PCAD
CDIN1			615626	C15orf41, FLJ22851, HH114, MGC11326
CDK13			603309	CDC2L, CDC2L5, CHED, KIAA1791
CDK16			311550	FLJ16665, PCTAIRE, PCTAIRE1, PCTGAIRE, PCTK1
CDK4			123829	PSK-J3

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
CDK5			123831	PSSALRE
CDK5R1			603460	Nck5a, p35, p35nck5a
CDK5RAP2			608201	C48, CEP215, FLJ10867, MCPH3
CDK6			603368	PLSTIRE
CDKL5			300203	CFAP247, EIEE2, STK9
CDKN1A	NM_001374510.1:1 NM_001374512.1:3	NM_001374511.1:2	116899	CAP20, CDKN1, CIP1, P21, SDI1, WAF1, p21, p21CIP1, p21Cip1/Waf1
CDKN1B			600778	KIP1, P27KIP1
CDKN2A			600160	ARF, CDK4I, CDKN2, CMM2, INK4, INK4a, MLM, MTS1, P16-INK4A, p14, p14ARF, p16, p16INK4a, p19, p19Arf
CDKN2B			600431	CDK4I, INK4B, MTS2, P15, TP15, p15INK4b
CDKN2C			603369	INK4C, p18
CDON			608707	CDO, CDON1, Ihog, ORCAM
CEBPA			116897	C/EBP-alpha, CEBP
CEBPE			600749	CRP1
CEBPG			138972	GPE1BP, IG/EBP-1
CEL	NM_001807.6:1, 8-9, 11		114840	BSSL, MODY8
CELSR2			604265	ADGRC2, CDHF10, EGFL2, Flamingo1, KIAA0279, MEGF3
CELSR3			604264	ADGRC3, CDHF11, EGFL1, FMI1, HFMI1, MEGF2
CEMIP			608366	HYBID, IR2155535, KIAA1199, TMEM2L
CENPE			117143	KIF10, PPP1R61
CENPF			600236	hcp-1
CENPJ			609279	BM032, CPAP, LAP, LIP1, MCPH6, SASS4, SCKL4, Sas-4
CEP104			616690	CFAP256, GlyBP, JBTS25, KIAA0562, ROC22, RP1-286D6.4
CEP135			611423	CEP4, FLJ13621, KIAA0635
CEP152			613529	KIAA0912, MCPH9, SCKL5
CEP19	NM_001379468.1:1		615586	C3orf34, MGC14126
CEP250			609689	C-NAP1, CEP2
CEP41			610523	DKFZp762H1311, FLJ22445, JBTS15, TSGA14
CEP57			607951	KIAA0092, TSP57, Translokcin

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
CEP63	NM_001353118.1:1	NM_001353118.1:2	614724	FLJ13386
CEP83			615847	CCDC41, NPHP18, NY-REN-58
CER1			603777	DAND4
CERS3			615276	LASS3, MGC27091
CERT1	NM_001379004.1:16		604677	CERT, COL4A3BP, GPBP, STARD11
CETP			118470	BPIFF
CFAP298		NM_001350335.1:5 NM_001350337.2:6	615494	C21orf48, C21orf59, CILD26, DNAAF16, FBB18, FLJ20467, Kur
CFAP410			603191	A2, C21orf2, LRRC76, YF5
CFAP53			614759	CCDC11, FLJ32743
CFB			138470	BF, BFD, H2-Bf
CFD			134350	ADN, DF, PFD
CFHR5			608593	CFHL5, FHR-5, FHR5
CFI	NM_001375278.1:14-15 NM_001375279.1:13-14 NM_001375280.1:12-13 NM_001375281.1:13 NM_001375282.1:12		217030	C3b-INA, FI, IF, KAF
CFP			300383	PFC
CFTR (NM_000492)	NM_000492.4:7, 10-11, 25, p.Phe508del (F508del), 5T/7T/9T or TG repeat variants (IVS8)		602421	ABC35, ABCC7, CF, CFTR/MRP, MRP7, TNR-CFTR, dJ760C5.1
CH25H			604551	
CHAF1B			601245	CAF-1, CAF1, CAF1A, CAF1P60, MPHOSPH7, MPP7
CHAMP1			616327	C13orf8, CAMP, CHAMP, ZNF828
CHAT			118490	
CHCHD2			616244	C7orf17, MIX17B, MNRR1
CHD1L			613039	ALC1
CHD2			602119	DKFZp54711315, DKFZp686E01200, DKFZp781D1727, FLJ38614
CHD4			603277	Mi-2b, Mi2-BETA
CHD7			608892	CRG, FLJ20357, FLJ20361, KIAA1416
CHD8			610528	DUPLIN, HELSNF1, KIAA1564
CHEK2	NM_001005735.2:3 NM_001349956.2:4		604373	CDS1, CHK2, HuCds1, PP1425, RAD53, bA444G7
CHGB			118920	SCG1, Sgl

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
CHMP2B			609512	CHMP2.5, DKFZP5640123, VPS2B
CHMP4B			610897	C20orf178, SNF7-2, Shax1, VPS32B, dJ553F4.4
CHN1	NM_001371514.1:4		118423	ARHGAP2, CHN, DURS2, RhoGAP2, n-chimerin
CHRDL1			300350	CHL, MGC1, NRLN1
CHRM2			118493	
CHRM3			118494	
CHRNA2			118502	
CHRNA3			118503	
CHRNA4			118504	BFNC, EBN, EBN1
CHRN1			100710	CHRN1
CHRN2			118507	
CHST3			603799	C6ST, C6ST1
CHST6			605294	MCDC1
CHST8			610190	GALNAC4ST-1
CHUK			600664	IKK-alpha, IKK1, IKKA, IKBKA, NFKB1A, TCF16
CIAO1			604333	CIA1, WDR39
CIDEC			612120	CIDE-3, FLJ20871, Fsp27
CIITA			600005	C2TA, MHC2TA, NLRA
CILK1		NM_001375397.1:9	612325	ICK, KIAA0936, LCK2, MGC46090, MRK
CIT			605629	CITK, CRIK, KIAA0949, STK21
CIZ1			611420	LSFR1, ZNF356
CKAP2L			616174	FLJ40629, radmis
CKM			123310	CKMM
CKMT2			123295	SMTCK
CLCA2			604003	CLCRG2
CLCF1			607672	BSF-3, BSF3, CISS2, CLC, NNT-1, NNT1, NR6
CLCN1			118425	CLC1, CIC-1
CLCN2			600570	CLC2, CIC-2, EJM6
CLCN4			302910	CLC4, CIC-4
CLCN5			300008	CLC5, CIC-5, DENTS, NPHL1, NPHL2, XLRH, XRN, hCIC-K2, hCIC-K2
CLCN7			602727	CLC-7, CLC7, CIC-7, OPTA2, PPP1R63
CLDN1			603718	ILVASC, SEMP1
CLDN16			603959	HOMG3, PCLN1
CLDN19			610036	
CLEC16A			611303	Gop-1, KIAA0350

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
CLEC4C			606677	BDCA2, CD303, CLECSF11, CLECSF7, DLEC, HECL
CLEC7A			606264	CD369, CLECSF12, DECTIN-1, SCARE2, hDectin-1
CLHC1				C2orf63, FLJ31438
CLIC2			300138	CLCNL2, XAP121
CLIP1	NM_001389291.1:16		179838	CLIP, CLIP-170, CLIP170, CYLN1, RSN
CLMP			611693	ACAM, ASAM, FLJ22415
CLN3			607042	BTN1, BTS, JNCL
CLN5	NM_001366624.2:4		608102	
CLN6			606725	FLJ20561, HsT18960, nclf
CLN8			607837	C8orf61, EPMP, FLJ39417, TLCD6
CLP1			608757	HEAB, hClp1
CLPB			616254	ANKCLP, FLJ13152, SKD3
CLSTN1	NM_001009566.3:1 NM_001302883.1:1 NM_014944.4:1		611321	CDHR12, CSTN1, KIAA0911
CLTC			118955	CLTCL2, Hc
CLU			185430	APOJ, CLI, CLU1, CLU2, KUB1, SGP-2, SP-40, TRPM-2
CLUAP1			616787	CFAP22, FAP22, FLJ13297, IFT38, KIAA0643
CMYA5			612193	C5orf10, DKFZp451G223, SPRYD2, TRIM76
CNBP			116955	CNBP1, DM2, RNF163, ZCCHC22, ZNF9
CNGA2			300338	CNCA, CNCA1, CNG2, FLJ46312, OCNC1, OCNCALPHA, OCNCa, OCNCalpha
CNGA3			600053	ACHM2, CCNC1, CCNCa, CNCG3, CNG3
CNGB3			605080	ACHM1, ACHM3, RMCH
CNKSR2			300724	CNK2, KIAA0902, KSR2
CNNM1			607802	ACDP1
CNNM2			607803	ACDP2
CNR1			114610	CANN6, CB-R, CB1, CB1A, CB1K5, CNR
CNTN2			190197	AXT, TAG-1, TAX, TAX1
CNTN3			601325	BIG-1, PANG
CNTN4			607280	BIG-2
CNTN6			607220	NB-3
CNTNAP2			604569	Caspr2, KIAA0868, NRXN4

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
CNTNAP5			610519	FLJ31966, caspr5
CNTROB		NM_001353204.2:6	611425	LIP8, PP1221
COA3			614775	CCDC56, COX25, HSPC009, MITRAC12, hCOA3
COA5			613920	C2orf64, FLJ27524, MGC52110, Pet191
COA6			614772	C1orf31
COASY			609855	DPCK, NBP, PPAT
COG1			606973	KIAA1381, LDLB
COG2			606974	LDLC
COG4			606976	COD1, DKFZP586E1519
COG5			606821	GOLTC1, GTC90
COG6			606977	COD2, KIAA1134
COG7			606978	
COG8	NM_001379261.1:5 NM_001379262.1:6 NM_001379265.1:5 NM_001379266.1:4	NM_001374871.1:4 NM_001379263.1:5	606979	DOR1, FLJ22315
COL10A1			120110	
COL11A1			120280	CO11A1, COLL6, DFNA37, STL2
COL11A2			120290	DFNA13, DFNB53, HKE5
COL13A1	NM_001368882.1:21 NM_001368883.1:20, 36 NM_001368885.1:34 NM_001368886.1:35 NM_001368895.1:18 NM_001368896.1:32 NM_001368897.1:32		120350	
COL14A1	NM_001384947.1:48		120324	UND
COL18A1			120328	KNO, KNO1, KS
COL1A1			120150	OI4
COL1A2			120160	OI4
COL22A1			610026	
COL25A1			610004	
COL27A1			608461	FLJ11895, KIAA1870, MGC11337
COL2A1			120140	AOM, SEDC, STL1
COL3A1			120180	EDS4A
COL4A1			120130	
COL4A2			120090	DKFZp686i14213, FLJ22259
COL4A3			120070	
COL4A4			120131	CA44
COL4A5			303630	ASLN, ATS
COL4A6			303631	

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
COL5A1	NM_000093.5:1 NM_001278074.1:1		120215	
COL5A2			120190	
COL6A6			616613	
COL8A2			120252	FECD, FECD1, PPCD, PPCD2
COL9A1	NM_001377289.1:19 NM_001377291.1:11		120210	
COL9A2			120260	EDM2, MED
COL9A3			120270	DJ885L7.4.1, EDM3, FLJ90759, IDD, MED
COLEC11			612502	CL-11, CL-K1, MGC3279
COMP			600310	EDM1, EPD1, MED, PSACH, THBS5, TSP-5, TSP5
COPA			601924	HEP-COP
COQ4			612898	CGI-92
COQ5			616359	MGC4767
COQ6			614647	CGI-10
COQ7	NM_001370489.1:1 NM_001370491.1:1		601683	CAT5, CLK-1
COQ8B			615567	ADCK4, COQ8, FLJ12229
CORIN			605236	ATC2, CRN, Lrp4, PRSC, Tmprss10
COX14			614478	C12orf62, MGC14288
COX20	NM_198076.6:3 NM_001312871.1:4 NM_001312872.1:4 NM_001312873.1:2 NM_001312874.1:3		614698	FAM36A, FLJ43269
COX6A1			602072	COX6A, COX6AL
COX7B			300885	
COX8A			123870	COX, COX8, COX8-2, COX8L, VIII, VIII-L
CPA1			114850	CPA
CPA6			609562	CPAH
CPB2			603101	CPU, PCPB, TAFI
CPLANE1	NM_001384732.1:41	NM_001384732.1:40	614571	C5orf42, FLJ13231, Hug, JBTS17
CPN1			603103	
CPOX			612732	CPO, CPX, HCP
CPS1	NM_001369256.1:1		608307	GATD6
CPT1A			600528	CPT1, CPT1-L, L-CPT1
CPT1B			601987	CPT1-M, M-CPT1
CPT1C	NM_001136052.3:6-7 NM_001199752.3:6-7 NM_001199753.2:6-7	NM_001378482.1:9	608846	CATL1, CPT1P, CPTIC, FLJ23809

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
	NM_001378482.1:6-7 NM_001378483.1:6-7 NM_001378484.1:5-6 NM_001378485.1:5-6 NM_001378486.1:6-7 NM_001378487.1:6-7 NM_001378488.1:6-7 NM_152359.3:5-6			
CPT2			600650	CPT1, CPTASE
CR2			120650	C3DR, CD21
CRADD			603454	RAIDD
CRBN			609262	MRT2, MRT2A
CREB1			123810	
CREB3			606443	LZIP, Luman, sLZIP
CREB3L1			616215	OASIS
CREB3L3			611998	CREB-H, CREBH
CREBBP			600140	CBP, KAT3A, RSTS, RTS
CRELD1			607170	AVSD2, CIRPIN
CRH			122560	CRF, CRH1
CRHR1			122561	CRF-R, CRF1, CRHR
CRHR2			602034	CRF-RB, CRF2, HM-CRF
CRIPT			604594	HSPC139
CRKL			602007	
CRP			123260	PTX1
CRTAP			605497	CASP, LEPREL3, P3H5
CRY2			603732	
CRYAA	NM_001363766.1:1		123580	CRYA1, HSPB4
CRYAB			123590	CRYA2, HSPB5
CRYBA1			123610	CRYB1
CRYBA2			600836	
CRYBA4			123631	
CRYBB1			600929	
CRYBB3			123630	CRYB3
CRYGB			123670	CRYG2
CRYGC			123680	CRYG3
CRYGD			123690	CRYG4
CRYGS			123730	CRYG8
CRYL1			609877	GDH, MGC149525, MGC149526, lambda-CRY
CSF2RB			138981	CD131, IL3RB, IL5RB, betaGMR
CSF3R			138971	CD114, GCSFR
CSNK1D	NM_001363749.2:9		600864	CKID, CKIdelta, HCKID
CSNK2A1			115440	Cka1, Cka2

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
CSPP1	NM_001363131.2:11 NM_001363132.2:5 NM_001364869.1:5 NM_001382391.1:5, 12		611654	CSPP, CSPP-L, FLJ22490, JBTS21
CSRP3		NM_001369404.1:5	600824	CLP, CMD1M, MLP
CST3			604312	
CSTB	NM_000100.4: (CCCCGCCCGCG)n repeat expansion in 5'UTR		601145	CST6, EPM1, PME, STFB
CTBP1			602618	BARS
CTC1			613129	AAF132, C17orf68, FLJ22170
CTCF			604167	CFAP108, FAP108
CTH			607657	CSE
CTHRC1			610635	
CTLA4			123890	CD, CD152, CELIAC3, CTLA-4, GSE, IDDM12
CTNNA1			116805	CAP102
CTNNA3			607667	MGC26194, VR22
CTNNB1			116806	CTNNB, armadillo, beta-catenin
CTNND2	NM_001332.4:7 NM_001288715.1:6 NM_001364128.1:13		604275	GT24, NPRAP
CTNS			606272	CTNS-LSB, PQLC4, SLC66A4
CTPS1			123860	CTPS, GATD5A
CTR9			609366	KIAA0155, SH2BP1, TSBP, p150TSP
CTRC (NM_007272)			601405	CLCR, ELA4
CTSA			613111	GSL, PPGB
CTSB			116810	
CTSC			602365	DPP1, PALS, PLS
CTSD			116840	CLN10, CPSD
CTSF			603539	CATSF, CLN13
CTSH			116820	ACC-4, ACC-5, ACC4, ACC5, CPSB
CTSK			601105	CTSO, CTSO2, PKND, PYCD
CUBN			602997	IFCR, MGA1, gp280
CUL3			603136	
CUL4B	NM_001369145.1:1		300304	
CUL7			609577	KIAA0076, dJ20C7.5
CUX2			610648	CDP2, CUTL2, KIAA0293
CXCR1			146929	CD181, CDw128a, CKR-1, CMKAR1, IL8RA
CXCR2			146928	CD182, CMKAR2, IL8RB

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
CXCR3			300574	CD183, CKR-L2, CMKAR3, GPR9, IP10-R, MigR
CXCR4	NM_001348056.2:2 NM_001348059.2:2		162643	CD184, D2S201E, HM89, HSY3RR, LESTR, NPY3R, NPYR, NPYY3R, fusin
CXXC5			612752	HSPC195, RINF, WID
CYB5A			613218	CYB5, MCB5
CYB5R1			608341	NQ03A2, humb5R2
CYB5R2			608342	
CYB5R3			613213	B5R, DIA1
CYB5R4			608343	NCB50R, b5+b5R, dJ676J13.1
CYBA			608508	p22-PHOX
CYBB			300481	CGD, GP91-PHOX, NOX2
CYBRD1			605745	CYB561A2, DCYTB, FLJ23462, FRRS3
CYLD			605018	CYLD1, KIAA0849, USPL2
CYP11A1			118485	CYP11A, P450SCC
CYP17A1			609300	CPT7, CYP17, P450C17, S17AH
CYP19A1			107910	ARO, ARO1, CPV1, CYAR, CYP19, P-450AROM, aromatase
CYP1A2			124060	CP12, P3-450
CYP1B1			601771	CP1B, GLC3A
CYP24A1			126065	CP24, CYP24, P450-CC24, IncBCAS1-4_1
CYP26B1			605207	P450RAI-2
CYP27A1			606530	CP27, CTX, CYP27
CYP27B1			609506	CYP1, P450c1, PDDR, VDD1
CYP2C8			601129	CPC8
CYP2C9			601130	CYP2C10, P450IIC9
CYP3A4			124010	CYP3A3
CYP3A43			606534	
CYP3A5			605325	CP35, P450PCN3, PCN3
CYP3A7			605340	CP37, P450-HFLA
CYP4F22			611495	FLJ39501
CYP4V2			608614	CYP4AH1
CYP51A1			601637	CP51, CYP51, CYPL1, LDM, P450-14DM, P450L1
CYP7A1			118455	CYP7
CYP7B1			603711	SPG5A
D2HGDH			609186	D2HGD, FLJ42195, MGC25181

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
DACT1			607861	DAPPER, DAPPER1, FRODO, HDPR1, THYEX3
DAO			124050	DAAO, DAMOX
DAPK1			600831	DAPK
DAPK3			603289	ZIP, ZIPK
DARS1			603084	DARS
DAZL			601486	DAZH, DAZL1, DAZLA, MGC26406, SPGYLA
DBH			609312	DBM
DCAF17			612515	C2orf37, FLJ13096
DCAF8			615820	FLJ35857, H326, WDR42A
DCC			120470	IGDCC1, NTN1R1
DCDC2			605755	DCDC2A, DFNB66, KIAA1154, NPHP19, RU2
DCLRE1B			609683	APOLLO, FLJ12810, FLJ13998, SNM1B
DCLRE1C	NM_001350965.2:15 NM_001350966.2:13 NM_001350967.2:16		605988	A-SCID, ARTEMIS, FLJ11360, SCIDA, SNM1C
DCN			125255	DSPG2, SLRR1B
DCPS		NM_001350236.2:1	610534	DCS-1, DCS1, HINT-5, HINT5, HSL1, HSPC015
DCSTAMP			605933	DC-STAMP, FIND, TM7SF4
DCTN1			601143	
DCX			300121	DBCN, DC, LISX, SCLH, XLIS
DCXR			608347	DCR, HCR2, KIDCR, P34H, SDR20C1
DDB2			600811	DDBB, FLJ34321, UV-DDB2, XPE
DDC			107930	AADC
DDHD1			614603	KIAA1705, PA-PLA1, PAPLA1, SPG28, iPLA1alpha
DDHD2			615003	KIAA0725, SAMWD1, SPG54, iPLA1gamma, p125B
DDIT4			607729	Dig2, FLJ20500, REDD-1, REDD1, RTP801
DDOST			602202	KIAA0115, OST, OST48, WBP1
DDR2			191311	NTRKR3, TKT, TYRO10
DDRGK1			616177	C20orf116, UFBP1, dJ1187M17.3
DDX24			606181	
DDX3X			300160	CAP-Rf, DBX, DDX14, DDX3, HLP2

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
DDX41			608170	ABS, MGC8828
DDX59		NM_001349802.3:8	615464	DKFZP564B1023, ZNHIT5
DEAF1			602635	NUDR, SPN, ZMYND5
DECR1			222745	DECR, SDR18C1
DEFA4			601157	DEF4, HP-4
DENND2B			140750	HTS1, ST5, p126
DENR			604550	DRP, DRP1, SMAP-3
DEPDC5			614191	DEP.5, KIAA0645
DES	NM_001382712.1:9		125660	CMD11, CSM1, CSM2, LGMD2R
DGAT2			606983	
DGAT2L6			300926	DC3, FLJ25989
DGKE			601440	DAGK6, DGK
DHCR7			602858	SLOS
DHDDS			608172	DS, FLJ13102, HDS, RP59, hCIT
DHFR	NM_000791.4:6 NM_001290354.2:5 NM_001290357.2:5		126060	DHFR1
DHH			605423	HHG-3, MGC35145
DHTKD1			614984	CMT2Q, DKFZP762M115, KIAA1630, MGC3090
DHX34	NM_014681.6:7		615475	DDX34, KIAA0134
DHX38			605584	DDX38, KIAA0224, PRP16, PRPF16, hPrp16
DIABLO			605219	DFNA64, DIABLO-S, FLJ10537, FLJ25049, SMAC
DIAPH1			602121	DFNA1, LFHL1, hDIA1, mDia1
DICER1	NM_001395699.1:11	NM_001395692.1:25 NM_001395693.1:23 NM_001395694.1:25 NM_001395695.1:24 NM_001395696.1:22	606241	Dicer, HERNA, K12H4.8-LIKE, KIAA0928, MNG1
DIP2B			611379	FLJ34278, KIAA1463
DISC1			605210	
DKC1			300126	Cbf5, DKC, NAP57, NOLA4, XAP101, dyskerin
DLC1			604258	ARHGAP7, DLC-1, HP, STARD12, p122-RhoGAP
DLG2	NM_001351274.2:2 NM_001351275.2:1 NM_001351276.2:1 NM_001377968.1:18 NM_001377973.1:1 NM_001377975.1:14 NM_001377976.1:2	NM_001351274.2:3 NM_001351275.2:2	603583	PPP1R58, PSD-93, PSD93, chapsyn-110

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
	NM_001377977.1:1 NM_001377979.1:6 NM_001377983.1:6			
DLG3			300189	KIAA1232, MRX90, NE-Dlg, NEDLG, PPP1R82, SAP-102, SAP102
DLG4	NM_001369566.2:1		602887	PSD-95, PSD95, SAP-90, SAP90
DLGAP2			605438	C8orf68, DAP-2, ERICH1-AS1
DLGAP3			611413	DAP3, SAPAP3
DLL1			606582	
DLL3			602768	SCDO1
DLL4			605185	
DLX3			600525	
DLX4			601911	BP1, DLX7, DLX8, DLX9
DLX5			600028	
DMBX1			607410	Atx, MBX, OTX3, PAXB
DMC1			602721	LIM15
DMD			300377	BMD, DXS142, DXS164, DXS206, DXS230, DXS239, DXS268, DXS269, DXS270, DXS272, MRX85
DMGDH			605849	ME2GLYDH
DMPK			605377	DM, DM1, DM1PK, DMK, MDPK, MT-PK
DMRT1			602424	CT154, DMT1
DMXL2	NM_001378457.1:34 NM_001378458.1:34 NM_001378459.1:32	NM_001378463.1:32	612186	DFNA71, KIAA0856, RC3
DNA2			601810	DNA2L, KIAA0083
DNAAF1			613190	CILD13, DAU1, FLJ25330, LRRC50, ODA7, swt
DNAAF11			614930	CILD19, LRRC6, LRTP, TSLRP, tilB
DNAAF2			612517	C14orf104, CILD10, FLJ10563, KTU, PF13
DNAAF3			614566	C19orf51, CILD2, FLJ36139, FLJ40069, PCD, PF22
DNAAF4			608706	CILD25, DYX1C1, EKN1, FLJ37882
DNAAF5	NM_017802.4:1		614864	CILD18, FLJ20397, FLJ25564, FLJ31671, FLJ39381, HEATR2
DNAAF6			300933	CXorf41, MGC35261, NYSAR97, PIH1D3, TWISTER

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
DNAH1			603332	DNAHC1, HDHC7, HL-11, HL11, XLHSRF-1
DNAH10	NM_001372106.1:12	NM_001372106.1:1	605884	FLJ43808
DNAH11			603339	CILD7, DNAHBL, DNAHC11, DNHBL, DPL11, Dnahc11
DNAH14	NM_001367479.1:27, 53-54 NM_001367481.1:8		603341	C1orf67, DKFZp781B1548, Dnahc14, HL-18, HL18, MGC27277
DNAH5			603335	CILD3, Dnahc5, HL1, KTGNR, PCD
DNAH6			603336	DNHL1, Dnahc6, FLJ37357, HL-2
DNAH8			603337	hdhc9
DNAI1			604366	CILD1, DIC1, PCD
DNAI2	NM_001353167.2:13		605483	CILD9, DIC2
DNAJB13			610263	RSPH16A, TSARG6
DNAJB2			604139	CMT2T, HSJ1, HSPF3
DNAJC13			614334	KIAA0678, RME8
DNAJC17			616844	FLJ10634
DNAJC21		NM_001348420.2:9	617048	DNAJA5, GS3, JJJ1
DNAJC3			601184	ERdj6, HP58, P58, P58IPK, PRKRI, p58(IPK)
DNAJC5			611203	CLN4, DNAJC5A, FLJ00118, FLJ13070
DNAJC6			608375	KIAA0473, PARK19
DNAL1			610062	1700010H15RiK, C14orf168, CILD16, MGC12435
DNAL4			610565	PIG27, dJ327J16
DNASE1		NM_001387139.1:6 NM_001387140.1:11	125505	DNL1
DNASE1L3			602244	DNAS1L3, LSD
DNM1	NM_001374269.1:22		602377	DNM
DNM1L			603850	DRP1, DVLP, DYMPLE, HDYNIV, VPS1
DNM2			602378	CMT2M, CMTDI1, CMTDIB, DI-CMTB, DYN2, DYNII
DNMT1	NM_001130823.3:5 NM_001318731.2:5		126375	CXXC9, DNMT, MCMT
DNMT3A			602769	
DNMT3B			602900	
DOCK2			603122	KIAA0209
DOCK7			615730	KIAA1771, ZIR2
DOCK8			611432	FLJ00026, FLJ00152, FLJ00346, ZIR8
DOLK			610746	DK1, KIAA1094, TMEM15

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
DONSON			611428	B17, C21orf60, C2TA, DKFZP434M035
DPAGT1			191350	ALG7, CDG-Ij, D11S366, DGPT, DPAGT, DPAGT2, GPT
DPH1			603527	DPH2L, DPH2L1, OVCA1
DPM1			603503	CDGIE, MPDS
DPM3			605951	MGC125904, MGC125905, MGC34275
DPYD			612779	DHPDHase, DPD
DPYS			613326	DHPase
DRAM2	NM_001349886.1:6 NM_001349887.1:5 NM_001349888.1:6		613360	MGC54289, PRO180, RP5-1180E21.1, TMEM77, WWFQ154
DRC1			615288	C2orf39, CCDC164, CILD21, FLJ32660, MGC16372
DRD1			126449	
DRD2			126450	
DRD3			126451	
DRD5			126453	DRD1B, DRD1L2
DROSHA			608828	Etohi2, HSA242976, RN3, RNASE3L, RNASEN
DRP2			300052	
DSC2			125645	CDHF2, DSC3
DSC3			600271	CDHF3, DSC, DSC1, DSC2, DSC4
DSE		NM_001374522.1:5	605942	DS-Epi1, DSEPI, SART2
DSG1			125670	CDHF4, DSG
DSG2			125671	CDHF5
DSG3			169615	CDHF6
DSG4			607892	CDHF13, LAH
DSP			125647	DPI, DPII, KPPS2, PPKS2
DSTYK			612666	DustyPK, KIAA0472, RIP5, RIPK5, SPG23
DTD1	NM_001318043.2:5		610996	C20orf88, DUEB, HARS2, MGC119131, MGC41905, bA379J5.3, bA555E18.1, pqn-68
DTHD1		NM_001170700.3:1-2	616979	FLJ16686
DTNBP1			607145	BLOC1S8, DBND, Dysbindin, HPS7, My031
DUOXA2			612772	
DUSP16			607175	KIAA1700, MKP-7, MKP7
DUSP3			600183	VHR
DUSP4			602747	HVH2, MKP-2, TYP
DUSP6			602748	MKP-3, PYST1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
DVL1			601365	
DVL2			602151	
DVL3			601368	KIAA0208
DXO			605996	DOM3Z
DYM	NM_001353212.3:14 NM_001353213.3:14 NM_001353214.3:14 NM_001353215.3:14 NM_001374428.1:15 NM_001374429.1:14 NM_001374430.1:14, 18 NM_001374431.1:14 NM_001374432.1:13 NM_001374433.1:17 NM_001374441.1:9		607461	DMC, FLJ20071, SMC
DYNC1H1			600112	CMT20, DHC1, DNCH1, DNCL, DNECL, Dnhc1, HL-3, p22
DYNC2H1			603297	DHC1b, DHC2, DNCH2, DYH1B, hdhc11
DYNC2I1	NM_001350917.2:11 NM_001350918.2:12		615462	CFAP163, DIC6, FAP163, FLJ10300, WDR60
DYNC2I2			613363	CFAP133, DIC5, FAP133, MGC20486, WDR34, bA216B9.3
DYNC2LI1	NM_001348912.1:13 NM_001348913.1:13		617083	CGI-60, D2LIC, DKFZP564A033, LIC3
DYNLT2B		NM_001351628.2:5	617353	MGC33212, TCTEX1D2
DYRK1A			600855	DYRK, DYRK1, MNBH
DYRK1B			604556	MIRK
E2F1			189971	RBBP3, RBP3
EARS2			612799	KIAA1970, MSE1, mtGlnRS
EBF3	NM_001375380.1:16 NM_001375389.1:16 NM_001375390.1:16	NM_001375379.1:8, 15 NM_001375380.1:8, 15 NM_001375389.1:8 NM_001375391.1:8 NM_001375392.1:14	607407	COE3, DKFZp667B0210
EBP			300205	CDPX2, CHO2, CPX, CPXD
ECE1			600423	ECE
ECEL1			605896	DINE, XCE
ECHS1			602292	SCEH
ECI1			600305	DCI
EDA2R			300276	EDA-A2R, EDAA2R, TNFRSF27, XEDAR
EDC3			609842	FLJ21128, LSM16, YJDC, YJEFN2, hYjeF_N2-15q23
EDN1			131240	ET1
EDNRA	NM_001354797.2:4		131243	ET-A, ETA-R, hET-AR

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
EED			605984	HEED, WAIT-1
EEF1A2			602959	EEF1AL, HS1, STN, STNL
EEF2			130610	EEF-2, EF2
EFCAB13				C17orf57, FLJ40342
EFEMP1			601548	DHRD, FBLN3, FBNL, MTLV, S1-5
EFEMP2			604633	FBLN4, UPH1
EFHC1			608815	EJM, EJM1, FLJ10466, POC9, RIB72
EFHC2			300817	FLJ22843, MRX74
EFNA4			601380	EPLG4, LERK4
EFNA5			601535	AF1, EPLG7, LERK7
EGF			131530	
EGFR			131550	ERBB, ERBB1, ERRP
EGLN1			606425	C1orf12, HIFPH2, PHD2, SM-20, ZMYND6
EGLN2			606424	HIFPH1, PHD1
EGR2			129010	KROX20
EHBP1			609922	KIAA0903, NACSIN
EHHADH			607037	ECHD
EHMT1	NM_024757.5:1 NM_001145527.2:1 NM_001354259.2:16 NM_001354263.2:1 NM_001354611.2:1	NM_001354611.2:10 NM_001354612.2:9	607001	EHMT1-IT1, Eu-HMTase1, FLJ12879, FLJ40292, GLP, KIAA1876, KMT1D, bA188C12.1
EIF2AK3			604032	PEK, PERK
EIF2AK4			609280	GCN2, KIAA1338
EIF2B1			606686	EIF-2B, EIF-2Balph, EIF2B, EIF2BA, EIF2Balph
EIF2B2			606454	EIF-2Bbeta, EIF2B, EIF2Bbeta
EIF2B3			606273	EIF-2B, EIF2Bgamma
EIF2B4			606687	DKFZP586J0119, EIF-2B, EIF2B, EIF2Bdelta
EIF2B5			603945	EIF-2B, EIF2Bepsilon
EIF2S3			300161	EIF2, EIF2G, EIF2gamma
EIF4A3			608546	DDX48, EIF4AIII, Fal1, KIAA0111
EIF4E	NM_001130679.2:8 NM_001130678.3:7 NM_001331017.1:8 NM_001968.4:7		133440	EIF4E1, EIF4EL1, EIF4F
EIF4ENIF1			607445	2610509L04Rik, 4E-T, Clast4, FLJ21601
ELAC2			605367	FLJ10530, HPC2

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
ELANE			130130	ELA2, HLE, HNE, NE, PMN-E
ELF4			300775	ELFR, MEF
ELK1			311040	
ELK3			600247	ERP, NET, SAP2
ELK4			600246	SAP1
ELMO2			606421	CED-12, CED12, ELMO-2, FLJ11656, KIAA1834
ELMOD2			610196	MGC10084
ELMOD3			615427	DFNB88, FLJ21977, RBED1, RBM29
ELN			130160	SVAS, WBS, WS
ELOVL4			605512	CT118, SCA34, STGD2, STGD3
ELOVL5			611805	HELO1, SCA38, dJ483K16.1
ELP1			603722	DYS, IKAP, IKBKAP, IKI3, TOT1
ELP2			616054	FLJ10879, STATIP1, StIP
ELP4			606985	C11orf19, PAXNEB
EMC1	NM_001375820.1:14 NM_001375821.1:14		616846	KIAA0090
EMD			300384	LEMD5, STA
EMG1			611531	C2F, Grcc2f, NEP1
EMILIN1			130660	DKFZp586M121, EMILIN, gp115
EML1	NM_001375411.1:1		602033	ELP79, EMAP, EMAPL, HuEMAP
EMP2			602334	XMP
EMX2			600035	
EN2			131310	
ENAM			606585	AIH2
ENG			131195	CD105, END, HHT1, ORW, ORW1
ENHO			618556	C9orf165, UNQ470
ENO3	NM_001374524.1:1		131370	
ENTPD1			601752	ATPDase, CD39, NTPDase-1, SPG64
EOGT			614789	AER61, C3orf64, FLJ33770
EPAS1			603349	HIF2A, HLF, MOP2, PASD2, bHLHe73
EPB41	NM_001376014.1:15 NM_001376016.1:17-18 NM_001376017.1:17-18 NM_001376018.1:17-18 NM_001376019.1:17-18 NM_001376020.1:17-18		130500	4.1R, EL1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
	NM_001376021.1:14-15 NM_001376023.1:17-18 NM_001376024.1:17-18 NM_001376025.1:17-18 NM_001376026.1:15-16 NM_001376027.1:14-15 NM_001376028.1:14-15			
EPB41L1			602879	4.1N, KIAA0338
EPB41L4A	NM_001347887.2:23-24		612141	NBL4
EPB42			177070	MGC116735, MGC116737, PA
EPG5			615068	KIAA1632, hEPG5
EPHA1			179610	EPH, EPHT, EPHT1
EPHA2			176946	ECK
EPHA4			602188	Hek8, TYRO1
EPHA5			600004	CEK7, EHK1, Hek7, TYRO4
EPHA6			600066	FLJ35246
EPHB2			600997	DRT, EPHT3, ERK, Hek5, Tyro5
EPHB4 (NM_004444)			600011	HTK, Tyro11
EPHX1			132810	EPHX
EPHX2			132811	ABHD20, sEH
EPM2A	NM_001368129.2:3 NM_001368132.1:3	NM_001368130.1:3	607566	LD, LDE
EPO			133170	EP
EPOR			133171	EPO-R
EPRS1			138295	EARS, EPRS, GLUPRORS, PARS, QARS, QPRS
EPS8L2			614988	FLJ21935, FLJ22171, MGC3088
EPS8L3			614989	FLJ21522, MGC16817
EPX			131399	EPO, EPP, EPX-PEN
ERBB2	NM_001382784.1:10 NM_001382785.1:15 NM_001382786.1:10	NM_001382787.1:4 NM_001382788.1:13 NM_001382789.1:12	164870	CD340, HER-2, HER2, MLN-19, NEU, NGL, c-ERB-2, c-ERB2, p185(erbB2)
ERBB4			600543	ALS19, HER4
ERBIN			606944	ERBB2IP, LAP2
ERCC1			126380	RAD10
ERCC2			126340	EM9, MAG, MGC102762, MGC126218, MGC126219, XPD
ERCC3			133510	BTF2, RAD25, Ssl2, XPB
ERCC4			133520	FANQC, RAD1, XPF
ERCC5			133530	ERCM2, XPGC
ERCC6L2	NM_001375291.1:19 NM_001375292.1:19		615667	C9orf102, FLJ37706, HEBO, RAD26L

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
	NM_001375293.1:18 NM_001375294.1:18			
ERLIN1			611604	C10orf69, Erlin-1, KE04, SPFH1, SPG62
ERLIN2			611605	C8orf2, Erlin-2, NET32, SPFH2, SPG18
ERMAP			609017	BTN5, RD, SC
ERMARD			615532	C6orf70, FLJ11152, dJ266L20.3
ERMP1			611156	FLJ23309, FXNA, KIAA1815
ESCO2			609353	EFO2, RBS
ESR1			133430	ER-alpha, ESR, Era, NR3A1
ESR2			601663	ER-beta, Erb, NR3A2
ETF1			600285	ERF, ERF1, RF1, SUP45L1, TB3-1, eRF1
ETFA			608053	EMA, GA2, MADD
ETFB			130410	
ETFDH			231675	ETFQO
ETV6			600618	TEL
EVC	NM_153717.3:1 NM_001306090.2:1 NM_001306092.2:1		604831	DWF-1, EVC1
EVC2			607261	LBN
EWSR1			133450	EWS
EXO1			606063	HEX1, hExol
EXOC4			608185	KIAA1699, MGC27170, SEC8, SEC8L1, Sec8p
EXOC8			615283	EXO84, Exo84p, SEC84
EXOSC2			602238	RRP4, Rrp4p, hRrp4p, p7
EXOSC8			606019	CIP3, EAP2, OIP2, RRP43, Rrp43p, bA421P11.3, p9
EXT1			608177	LGCR, LGS, ttv
EXT2			608210	SOTV
EXTL3			605744	REGR, botv
EZH2			601573	ENX-1, EZH1, KMT6, KMT6A
EZR			123900	VIL2
F11			264900	FXI
F12			610619	
F13A1			134570	F13A
F13B			134580	FXIIIB
F2			176930	
F2R			187930	CF2R, PAR-1, PAR1, TR
F7			613878	

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
F8 (NM_000132)	Intron 22-A and intron 1 inversions.		300841	DXS1253E, F8C, FVIII, HEMA
F9			300746	FIX
FA2H			611026	FAAH, FAXDC1, FLJ25287, SPG35
FAAH			602935	FAAH-1
FAAH2			300654	AMDD, FAAH-2, FLJ31204, RP11-479E16.1
FAAP24			610884	C19orf40, FLJ46828, MGC32020
FABP3			134651	FABP11, H-FABP, MDGI, O-FABP
FABP7			602965	B-FABP, BLBP
FADD			602457	GIG3, MORT1
FAH			613871	
FAM111A			615292	FLJ22794, KIAA1895
FAM111B			615584	CANP
FAM120AOS				C9orf100S
FAM136A			616275	FLJ14668
FAM177A1			619181	C14orf24
FAM20A			611062	DKFZp434F2322
FAM83H			611927	FLJ46072
FAN1			613534	KIAA1018, MTMR15
FANCA	NM_001018112.3:11 NM_001351830.2:10		607139	FA-H, FAA, FACA, FAH, FANCH
FANCB			300515	FAAP95, FAB, FLJ34064
FANCC			613899	FA3, FAC, FACC
FANCD2	NM_033084.6:14, 17, 21-22 NM_001018115.3:14, 17, 21-22 NM_001319984.2:14, 17, 21-22 NM_001374253.1:14, 17, 20-21 NM_001374254.1:14, 17, 21-22 NM_001374255.1:10		613984	FA-D2, FACD, FAD, FANCD
FANCE			613976	FACE, FAE
FANCF			613897	FAF
FANCG			602956	FAG, XRCC9
FANCI			611360	FLJ10719, KIAA1794
FANCL	NM_001374615.1:8		608111	FAAP43, FLJ10335, PHF9, Pog
FANCM			609644	FAAP250, KIAA1596
FAR1			616107	FLJ22728, MLSTD2, SDR10E1
FARS2			611592	FARS1, dJ236A3.1, mtPheRS
FAS			134637	APO-1, APT1, CD95, FAS1, TNFRSF6

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
FASLG			134638	APT1LG1, CD178, FasL, TNFSF6
FASN			600212	FAS, SDR27X1
FASTKD3			617530	FLJ23274, MGC5297
FAT1			600976	CDHF7, CDHR8, FAT
FAT3	NM_001367949.2:26-27 NM_001378141.1:4		612483	CDHF15, CDHR10, KIAA1989
FAT4			612411	CDHF14, CDHR11, FAT-J
FBLN1			135820	FBLN
FBLN2			135821	
FBLN5	NM_001384158.1:4 NM_001384159.1:1 NM_001384160.1:11 NM_001384161.1:12		604580	ARMD3, DANCE, EVEC, UP50
FBN1 (NM_000138)			134797	FBN, MASS, MFS1, OCTD, SGS, WMS
FBN2			612570	CCA, DA9
FBP1			611570	FBP
FBX031			609102	FBX14, FBX014, Fbx31, MGC15419
FBX032			606604	ATROGIN1, Fbx32, MAFbx
FBX038		NM_205836.3:15	608533	FLJ13962, Fbx38, MOKA, SP329
FBX07			605648	FBX7, Fbx, PARK15
FBXW4		NM_022039.4:1	608071	Fbw4, SHFM3, dactylin
FCGR2A			146790	CD32, CD32A, CDw32, FCG2, FCGR2, FCGR2A1, Fc-gamma-RIIa, Fc-gammaRIIa, IGFR2
FCN1			601252	FCNM
FCN2			601624	EBP-37, FCNL, P35, ficolin-2
FCN3			604973	FCNH, HAKA1
FDPS			134629	
FECH			612386	
FERMT3			607901	KIND3, MGC10966, MIG2B, UNC112C, URP2
FEZF1			613301	ZNF312B
FGD4	NM_001370298.3:1 NM_001384126.1:1, 18 NM_001384127.1:18 NM_001384128.1:18	NM_001384131.1:4 NM_001384132.1:4	611104	CMT4H, FRABP, ZFYVE6, frabin
FGF1			131220	AFGF, ECGF, ECGF-beta, ECGFA, ECGFB, FGF-alpha, FGFA, GLIO703, HBGF1
FGF10			602115	
FGF12			601513	FGF12B, FHF1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
FGF16			300827	MF4
FGF17			603725	FGF-13
FGF20			605558	
FGF5			165190	
FGF9			600921	
FGFBP1			607737	FGFBP, HBP17
FGFR1	NM_001354367.1:18 NM_001354369.1:18 NM_001354370.1:17		136350	BFGFR, CD331, CEK, FLG, FLT2, H2, H3, H4, H5, KAL2, N-SAM
FGFR2			176943	BEK, CD332, CEK3, CFD1, ECT1, JWS, K-SAM, KGFR, TK14, TK25
FGFR3		NM_001354810.2:17	134934	ACH, CD333, CEK2, JTK4
FGFR4			134935	CD334, JTK2
FH			136850	
FHL1			300163	FHL1B, FLH1A, KYO-T, MGC111107, SLIM1, XMPMA, ba535K18.1
FHL2			602633	DRAL, SLIM3
FHOD3			609691	FHOS2, FLJ22297, FLJ22717, KIAA1695
FIG4			609390	ALS11, CMT4J, KIAA0274, SAC3, dJ249I4.1, hSac3
FIGLA			608697	Figalpha, bHLHc8
FKBP10			607063	FKBP6, FKBP65, FLJ20683, FLJ22041, FLJ23833, hFKBP65
FKBP5			602623	FKBP51, FKBP54, P54, PPlase, Ptg-10
FKBPL			617076	DIR1, NG7, WISp39
FKTN	NM_001351497.2:6	NM_001351498.2:9	607440	FCMD, LGMD2M
FLAD1			610595	FAD1, PP591
FLCN	NM_001353229.2:7		607273	BHD, DENND8B, MGC17998, MGC23445
FLI1			193067	EWSR2, FLI-1, SIC-1
FLNA			300017	ABP-280, FLN, FLN1, OPD1, OPD2
FLNB			603381	ABP-278, FH1, FLN1L, LRS1, TABP, TAP
FLNC	NM_001458.5:47-48 NM_001127487.2:46-47		102565	ABP-280, ABPL, FLN2
FLRT1			604806	MGC21624, SPG68
FLRT3			604808	
FLT1			165070	FLT, VEGFR1
FLT3			136351	CD135, FLK2, STK1
FLT4	NM_001354989.2:30		136352	PCL, VEGFR-3, VEGFR3

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
FLVCR1			609144	AXPC1, FLVCR, MFSD7B, PCA, SLC49A1
FMN1			136535	DKFZP686C2281, FLJ45135, FMN, LD, MGC125288, MGC125289
FMN2	NM_020066.5:5 NM_001305424.2:6		606373	
FMO3			136132	FMOII
FMR1			309550	FMRP, FRAXA, MGC87458, POF, POF1
FN1			135600	CIG, FINC, GFND2, LETS, MSF, Inc-ABCA12-8
FN3K			608425	
FNIP1			610594	KIAA1961
FOCAD			614606	FLJ20375, KIAA1797
FOLR1			136430	FOLR, FR α
FOXA2			600288	HNF3B
FOXA3			602295	HNF3G
FOXC1			601090	ARA, FKHL7, FREAC3, IGDA, IHG1, IRID1
FOXC2			602402	FKHL14, MFH-1
FOXE1			602617	FKHL15, FOXE2, HFKH4, TITF2, TTF-2
FOXE3		NM_012186.3:1	601094	FKHL12, FREAC8
FOXG1		NM_005249.5:1	164874	BF1, FKH2, FKHL1, FKHL2, FKHL3, FKHL4, FOXG1A, FOXG1B, FOXG1C, HBF-3, HFK1, HFK2, HFK3, QIN
FOXH1			603621	FAST1
FOXI1			601093	FKHL10, FREAC6
FOXL1			603252	FKH6, FKHL11, FREAC7
FOXN1			600838	FKHL20, RONU, WHN
FOXO1			136533	FKH1, FKHR, FOXO1A
FOXP1			605515	12CC4, HSPC215, QRF1, hFKH1B
FOXP2			605317	CAGH44, SPCH1, TNRC10
FOXP3			300292	AIID, DIETER, IPEX, JM2, PIDX, SCURFIN, XPID
FPGS			136510	
FPR1			136537	FMLP, FPR
FPR2			136538	ALX, ALXR, FMLP-R-II, FMLPX, FPR2A, FPRH2, FPRL1, HM63, LXA4R
FRAS1			607830	FLJ14927, FLJ22031, KIAA1500

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
FREM1	NM_001370060.1:8 NM_001370063.1:8 NM_001370065.1:8	NM_001370060.1:4	608944	C9orf143, C9orf145, C9orf154, DKFZp686M16108, FLJ25461, TILRR
FREM2			608945	DKFZp686J0811
FRMD4A			616305	FLJ10210, FRMD4, KIAA1294, bA295P9.4
FRMD7			300628	FLJ43346, NYS, NYS1
FRMPD4	NM_001368395.2:2-3 NM_001368398.2:2-3 NM_001368399.2:1 NM_001368401.1:2 NM_001368402.2:2	NM_001368395.2:19 NM_001368396.3:17 NM_001368397.1:17	300838	KIAA0316, PDZD10, PDZK10
FRRS1L			604574	C9orf4, CG-6
FRY			614818	13CDNA73, C13orf14, CG003, bA37E23.1
FRZB			605083	FRE, FRITZ, FRP-3, FRZB-1, FRZB-PEN, FRZB1, FZRB, SFRP3, SRFP3, hFIZ
FSHB			136530	
FSHR			136435	FSHRO, LGR1, ODG1
FTH1			134770	FHC, FTH, FTHL6, PIG15, PLIF
FTL			134790	MGC71996, NBIA3
FTMT			608847	MtF
FTO	NM_001363894.1:8 NM_001363896.1:8 NM_001363988.1:9	NM_001363891.1:3 NM_001363898.1:3 NM_001363899.1:3	610966	ALKBH9, KIAA1752, MGC5149
FTSJ1			300499	CDLIV, JM23, MRX44, MRX9, SPB1, TRM7, TRMT7
FUCA1			612280	
FUT1			211100	H, HSC
FUT2			182100	SE, SEC2, Se2, sej
FUT7			602030	
FUZ			610622	CPLANE3, FLJ22688, Fy
FXN			606829	CyaY, FA, FARR, FRDA, X25
FXYD2			601814	ATP1G1, HOMG2, MGC12372
FYB1	NM_018594.2:2		602731	ADAP, FYB, FYB-120/130, SLAP-130
FYC01	NM_001386424.1:17-18 NM_001386425.1:18 NM_001386428.1:18 NM_001386429.1:17		607182	FLJ13335, ZFYVE7
FZD2			600667	
FZD4			604579	CD344, EVR1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
FZD5			601723	C2orf31, DKFZP434E2135, HFZ5
FZD6			603409	Hfz6
G6PC1			613742	G6PC, G6PT, GSD1a
G6PC2			608058	IGRP
G6PC3			611045	UGRP
G6PD (NM_001042351)			305900	G6PD1
GAA			606800	
GABARAP			605125	ATG8A, MM46
GABARAPL1		NM_001363598.2:3	607420	APG8L, ATG8B, ATG8L, gec1
GABARAPL2			607452	ATG8, ATG8C, GATE-16, GATE16, GEF2
GABBR1			603540	GPRC3A, hGB1a
GABBR2	NM_005458.8:1		607340	GABABR2, GPR51, GPRC3B, HG20
GABRA1			137160	EJM5
GABRA2		NM_001377155.1:9	137140	
GABRA4			137141	
GABRA5			137142	
GABRA6			137143	
GABRB1			137190	
GABRB2			600232	
GABRB3			137192	
GABRD			137163	
GABRE			300093	
GABRG1			137166	
GABRG2	NM_001375344.1:7 NM_001375347.1:1		137164	
GABRG3			600233	
GABRP			602729	
GABRQ			300349	
GABRR1			137161	
GABRR2			137162	
GAD1			605363	GAD
GAD2			138275	GAD65
GAK			602052	DNAJC26
GAL			137035	GAL-GMAP, GALN, GLNN, GMAP
GAL3ST2			608237	GP3ST
GAL3ST4			608235	FLJ12116
GALC			606890	
GALE			606953	SDR1E1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
GALK1			604313	GALK
GALNS			612222	GALNAC6S, GAS, GalN6S
GALNT14			608225	FLJ12691, GalNac-T10, GalNac-T14
GALNT2			602274	GalNac-T2
GALNT3			601756	GalNac-T3, HFTC, HHS
GALNTL5			615133	GALNT15, GalNac-T5L
GALP			611178	
GALT (NM_000155)	NM_000155.4: c.-119_-116del (component of Duarte/D2 haplotype)		606999	
GAMT			601240	PIG2, TP53I2
GAN			605379	GAN1, GIG, KLHL16
GANAB			104160	G2AN, GIIA, GluII, KIAA0088
GAP43			162060	B-50, GAP-43, PP46
GARS1			600287	CMT2D, DSMAV, GARS, GlyRS, SMAD1
GAS1			139185	
GAS8			605178	DRC4, GAS11
GATA1			305371	ERYF1, GATA-1, GF1, NF-E1, NFE1
GATA2			137295	NFE1B
GATA4			600576	
GATA5			611496	GATAS, bB379024.1
GATA6			601656	
GATAD2B			614998	P66beta
GATM			602360	AGAT
GBA2			609471	AD035, DKFZp762K054, KIAA1605, SPG46
GBE1	NM_000158.4: c.20533358_20533350delinsT GTTTTTTACATGAC AGGT (Ashkenazi Jewish founder variant)		607839	
GCDH			608801	ACAD5, GCD
GCGR			138033	GGR
GCH1			600225	DYT14, DYT5, DYT5a, GCH, GTPCH1
GCHFR			602437	GFRP, HsT16933
GCK	NM_001354800.1:11 NM_001354802.1:4 NM_001354803.1:1		138079	HK4, MODY2
GCKR			600842	
GCLC			606857	GCS, GLCL, GLCLC
GCM2			603716	GCMB, hGCMb

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
GCNT2			600429	CCAT, GCNT5, IGNT, II, NACGT1, NAGCT1, ULG3, bA360019.2, bA421M1.1
GCSH			238330	
GDAP1	NM_001362931.2:6		606598	CMT2K, CMT4, CMT4A
GDF1			602880	
GDF2			605120	BMP-9, BMP9
GDF3			606522	
GDF5			601146	BMP14, CDMP1
GDF6			601147	BMP13, KFS, KFS1, SGM1
GDF9			601918	
GDI1			300104	FLJ41411, GDIL, MRX41, MRX48, OPHN2, RABGDIA, XAP-4
GDNF			600837	ATF1, ATF2, HFB1-GDNF
GEMIN4			606969	DKFZP434B131, DKFZP434D174, HC56, HCAP1, HHRF-1, p97
GEN1			612449	FLJ40869, Gen
GFAP			137780	FLJ45472
GFI1			600871	GFI-1, GFI1A, ZNF163
GFI1B		NM_001371908.1:6	604383	ZNF163B
GFM2			606544	EF-G2mt, EFG2, FLJ21661
GFPT1			138292	GFA, GFAT, GFAT1, GFPT
GFRA1	NM_001348099.3:1 NM_001382560.2:11 NM_001382561.2:10		601496	GDNFR, GDNFRA, GFR-ALPHA-1, RET1L, RETL1, TRNR1
GGCX			137167	VKCFD1
GH1			139250	GH, GH-N, GHN, hGH-N
GH2			139240	GH-V, GHL, GHV, hGH-V
GHR			600946	GHBP
GHRHR			139191	
GHRL			605353	MTLRP, ghrelin, obestatin
GHSR			601898	
GIGYF2			612003	GYF2, KIAA0642, PARK11, PERQ2, PERQ3, TNRC15
GIT1			608434	
GJA1			121014	CX43, GJAL, ODD, ODDD, ODOD, SDTY3
GJA3			121015	CX46, CZP3
GJA5			121013	CX40
GJA8			600897	CAE, CAE1, CX50, CZP1
GJB1			304040	CMTX, CMTX1, CX32
GJB2 (NM_004004)			121011	CX26, DFNA3, DFNB1, NSRD1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
GJB4			605425	CX30.3
GJC2		NM_020435.4:2	608803	CX46.6, CX47, GJA12, SPG44
GJC3			611925	CX30.2, GJE1
GK	NM_000167.6:19 NM_001128127.2:20 NM_001205019.2:21 NM_001399987.1:5, 20 NM_203391.3:20		300474	GK1, GKD
GLA			300644	GALA
GLB1	NM_001393580.1:16		611458	EBP, ELNR1
GLDC			238300	GCSP, NKH
GLI1			165220	GLI
GLI2			165230	HPE9, THP1, THP2
GLI3			165240	ACLS, GCPS, PAP-A, PAPA, PAPA1, PAPB, PHS, PPDIV
GLIS2			608539	NPHP7
GLIS3			610192	MGC33662, ZNF515
GLMN			601749	FAP48, FAP68, FKBPAP, GLML, GVM, VMGLOM
GLP1R			138032	GLP-1R
GLRA1			138491	STHE
GLRA2			305990	GLR
GLRB			138492	
GLRX5			609588	C14orf87, GRX5, PR01238
GLUD1			138130	GDH, GDH1, GLUD, hGDH1
GLUD2			300144	GLUDP1
GLUL	NM_002065.6:8 NM_001033044.4:7 NM_001033056.3:7		138290	GLNS
GLYCTK			610516	HBEBP2, HBEBP4
GM2A			613109	GM2-AP, GM2AP, SAP-3
GMNN			602842	Gem
GMPPA			615495	
GNA12	NM_007353.3:1 NM_001293092.2:1		604394	gep
GNAI1			139310	
GNAI2			139360	GIP, GNAI2B
GNAI3			139370	87U6
GNAO1			139311	G-ALPHA-o
GNAS			139320	GNAS1, GNASXL, GPSA, NESP, NESP55, SCG6, SgVI
GNAT1			139330	CSNBAD3
GNAT2			139340	ACHM4
GNB1			139380	

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
GNB1L			610778	GY2, WDR14
GNB3			139130	
GNB4			610863	
GNB5			604447	GB5
GNG12			615405	
GNL2			609365	HUMAUANTIG, Ngp-1, Nog2, Nug2
GNPAT			602744	DAP-AT, DAPAT, DHAPAT
GNPTAB			607840	GNPTA, KIAA1208, MGC4170
GNPTG			607838	C16orf27, CAB56184, GNPTAG, c316G12.3
GNRH1			152760	GNRH, GRH, LHRH
GNRHR			138850	GRHR, LHRHR
GNS			607664	
GOLGA2	NM_001366244.1:3 NM_001366246.1:3 NM_001389695.2:3 NM_001389696.2:3 NM_001389697.2:3 NM_001389698.2:3 NM_001389699.2:3		602580	GM130, golgin-95
GORAB			607983	FLJ11752, GO, NTKL-BP1, SCYL1BP1
GOSR2			604027	Bos1, GS27
GOT1			138180	AST, AST1, SGOT
GP1BB			138720	CD42c, GPIbbeta
GP6			605546	GPVI
GP9			173515	CD42a, GPIX
GPATCH3			617486	FLJ12455, GPATC3
GPATCH8			614396	GPATC8, KIAA0553
GPBAR1			610147	BG37, GPCR, GPCR19, GPR131, M-BAR, MGC40597, TGR5
GPC3			300037	DGSX, OCI-5, SDYS, SGB, SGBS, SGBS1
GPC6			604404	
GPD1			138420	
GPD2			138430	
GPHN	NM_001377514.1:5, 10-11 NM_001377515.1:9-10 NM_001377516.1:9-10 NM_001377517.1:9 NM_001377518.1:9 NM_001377519.1:5		603930	KIAA1385
GPI			172400	AMF, NLK
GPIHBP1			612757	GPI-HBP1, LOC338328

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
GPR101			300393	
GPR143			300808	OA1
GPR161			612250	RE2
GPR174			300903	FKSG79, LPS3
GPR179			614515	CSNB1E, GPR158L1
GPR180			607787	ITR
GPR68			601404	OGR1
GPR75			606704	WI-31133
GPR85			605188	SREB2
GPT			138200	ALT, ALT1, GPT1, SGPT
GPT2			138210	ALT2
GPX4			138322	MCSP, PHGPx
GRB2			108355	NCKAP2
GREM1			603054	CKTSF1B1, CRAC1, DAND2, DRM, HMPS, gremlin
GREM2			608832	CKTSF1B2, DAND3, FLJ21195, Prdc
GRHL3			608317	SOM, TFPC2L4
GRHPR			604296	GLXR, PH2
GRIA1	NM_001364166.1:1		138248	GLUR1, GLURA, GluA1
GRIA3			305915	GLUR3, GLURC, GluA3, GluR-3, GluR-C, GluR-K3, MRX94, iGluR3
GRID2			602368	GluD2, GluR-delta-2
GRIK2			138244	EAA4, GLUK6, GLUR6, GluK2, GluR-6, MRT6
GRIK4			600282	GRIK, GluK4, KA1
GRIK5			600283	GRIK2, GluK5, KA2
GRIN1			138249	GluN1, NMDAR1
GRIN2A			138253	GluN2A, NMDAR2A
GRIN2B			138252	GluN2B, NMDAR2B
GRIN2D			602717	EB11, GluN2D, NMDAR2D, NR2D
GRIPI	NM_001366722.1:10 NM_001366723.1:1 NM_001366724.1:1 NM_001379345.1:1, 10 NM_001379346.1:10 NM_001379347.1:1 NM_001379348.1:1 NM_001379349.1:1 NM_001379351.1:1		604597	
GRK1			180381	GPRK1, RHOK, RK
GRK5			600870	GPRK5

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
GRM1			604473	GPRC1A, MGLUR1, PPP1R85, mGlu1
GRM6			604096	CSNB1B, GPRC1F, MGLUR6, mGlu6
GRM7			604101	GLUR7, GPRC1G, MGLUR7, PPP1R87, mGlu7
GRXCR2			615762	DFNB101
GSC			138890	
GSK3B			605004	
GSKIP			616605	C14orf129
GSN		NM_001353076.2:4	137350	DKFZp313L0718
GSPT2			300418	FLJ10441, eRF3b
GSR			138300	
GSS			601002	
GSTM3			138390	GST5, GSTM3TV2
GSTO1			605482	GSTTLp28, P28
GSTP1	NM_000852.4:1		134660	FAEES3, GST3, GSTP
GSTT1			600436	
GTF2E2	NM_001348353.1:7		189964	FE, TF2E2, TFIIIE-B
GTF2H5			608780	C6orf175, FLJ30544, TFB5, TFIIH, TTD, TTD-A, TTDA, bA120J8.2
GTF2IRD1			604318	BEN, Cream1, GTF3, MusTRD1, RBAP2, WBSCR11, WBSCR12
GTPBP2			607434	
GTPBP3			608536	FLJ14700, GTPBG3, MSS1, MTGP1, THDF1
GUCA1A			600364	C6orf131, COD3, CORD14, GCAP, GCAP1, GUCA, GUCA1, dJ139D8.6
GUCA1B			602275	GCAP2, RP48
GUCY1A1			139396	GC-SA3, GUC1A3, GUCY1A3
GUCY2C			601330	GUC2C, STAR
GUF1			617064	FLJ13220
GUSB			611499	
GYG1			603942	GYG
GYG2			300198	GN-2
GYPA	NM_002099.8:1 NM_001308187.2:1 NM_001308190.2:1		617922	CD235a, GPA, MN, MNS, PAS-2
GYPC			110750	CD236, CD236R, GPC, GYPD, Ge
GYS1			138570	GSY, GYS
GYS2			138571	

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
H19			103280	ASM, ASM1, D11S813E, LINC00008, MIR675HG, NCRNA00008
H3-4			602820	H3.4, H3/g, H3C16, H3FT, H3t, HIST3H3
H6PD			138090	GDH, H6PDH
HABP2			603924	FSAP, HABP, HGFAL, PHBP
HACD1			610467	CAP, PTPLA
HACE1			610876	KIAA1320
HADH			601609	HADH1, HADHSC, SCHAD
HADHA			600890	GBP, LCEH, LCHAD, MTPA
HADHB			143450	MTPB
HAL			609457	HIS
HAMP			606464	HEPC, HFE2B, LEAP-1, LEAP1
HAND1			602406	Hxt, Thing1, bHLHa27, eHand
HAND2			602407	Hed, Thing2, bHLHa26, dHand
HAO1			605023	GOX, GOX1
HARS1			142810	HARS, HisRS, USH3B
HAS2			601636	
HAS3			602428	
HAX1			605998	HAX-1, HCLSBP1, HS1BP1
HBA1	NM_000558.5:1-2		141800	HBA-T3
HBA2	NM_000517.6:1-2		141850	HBA-T2
HBB (NM_000518)			141900	CD113t-C, beta-globin
HBD			142000	
HBM			609639	HBAP2, HBK
HBS1L			612450	DKFZp434g247, EF-1a, ERFS, HBS1, HSPC276, KIAA1038, eRF3c
HCCS			300056	CCHL, MLS
HCFC1			300019	CFF, HCF-1, HCF1, HFC1, MGC70925, MRX3, PPP1R89, VCAF
HCN1			602780	BCNG-1, BCNG1, HAC-2
HCN3			609973	KIAA1535
HCN4			605206	
HCRT			602358	OX, PPOX
HCRT2			602393	ORXR2, OX2R, OXR2
HDAC4			605314	BDMR, HA6116, HD4, HDAC-4, HDAC-A, HDACA, KIAA0288
HDAC6			300272	FLJ16239, HD6, JM21, KIAA0901, PPP1R90

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
HDAC8			300269	HDACL1, KDAC8, MRXS6, RPD3, WTS
HDC			142704	
HECW2			617245	KIAA1301, NEDL2
HELLS			603946	LSH, Nbla10143, PASG, SMARCA6
HELQ			606769	Hel308
HEPACAM			611642	FLJ25530, GLIALCAM
HEPH			300167	CPL, KIAA0698
HERC1			605109	p532, p619
HES7			608059	bHLHb37
HESX1			601802	ANF, RPX
HEXA (NM_000520)			606869	
HEXB			606873	
HEXD	NM_001369487.1:11		616864	FLJ23825, HEXDC
HFE			613609	HFE1, HLA-H
HFM1			615684	FLJ36760, FLJ39011, MER3, SEC63D1
HGD			607474	AKU, HGO
HGSNAT	NM_152419.3:1 NM_001363227.2:1, 15 NM_001363228.2:1		610453	FLJ32731, HGNAT, TMEM76
HHAT			605743	FLJ10724, GUP2, MART-2, MART2, Skn, rasp, sit, ski
HHIP			606178	FLJ20992, HIP
HIBCH			610690	
HIF1A			603348	HIF-1alpha, HIF1, MOP1, PASD8, bHLHe78
HIKESHI			614908	C11orf73, HSPC138, HSPC179, OPI10
HINT1			601314	HINT, PKCI-1, PRKCNH1
HINT2			609997	
HIVEP2			143054	HIV-EP2, MBP-2, MIBP1, Schnurri-2, ZAS2, ZNF40B
HJV			608374	HFE2, HFE2A, JH, RGMC, haemojuvelin, hemojuvelin
HK1			142600	
HK2			601125	
HLCS	NM_001352514.2:1-2	NM_001352514.2:3	609018	HCS
HMBS			609806	PBGD, PORC, UPS
HMCN1			608548	ARMD1, FBLN6, FIBL-6, FIBL6
HMGA1			600701	HMG1Y
HMGA2	NM_001300919.1:4		600698	BABL, HMGIC, LIPO
HMGB3			300193	HMG2A, HMG4, MGC90319

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
HMGCL			613898	HL
HMGCR			142910	
HMGCS2			600234	
HMOX1			141250	HO-1, bK286B10
HMX1			142992	H6, NKX5-3
HNF1A			142410	HNF1, HNF1 α , LFB1, MODY3, TCF1
HNF1B			189907	HNF1beta, HNF1 β , LFB3, MODY5, TCF2, VHNF1
HNF4A			600281	HNF4, MODY, MODY1, NR2A1, TCF14
HNMT			605238	
HNRNPA0			609409	HNRPA0
HNRNPA1			164017	ALS20, HNRPA1, hnRNP-A1
HNRNPA2B1			600124	HNRPA2B1
HNRNPH1	NM_001364225.1:15 NM_001364226.1:14 NM_001364227.2:13 NM_001364228.2:13 NM_001364229.2:13 NM_001364230.2:12 NM_001364232.2:12 NM_001364240.2:12 NM_001364251.2:12 NM_001364252.2:12 NM_001364253.1:12 NM_001395177.1:12 NM_001395178.1:13 NM_001395179.1:13 NM_001395180.1:13 NM_001395181.1:13	NM_001363572.2:10 NM_001364230.2:10 NM_001364232.2:10 NM_001364240.2:10 NM_001364245.2:10 NM_001364248.2:10 NM_001395183.1:10 NM_001395189.1:11 NM_001395192.1:8	601035	HNRPH1, hnRNPH
HNRNPH2			300610	FTP3, HNRPH', HNRPH2, hnRNPH'
HNRNPK			600712	CSBP, HNRPK, TUNP
HNRNPU			602869	C1orf199, FLJ30202, FLJ37978, HNRNPU-AS1, HNRPU, NCRNA00201, SAF-A
HOGA1			613597	C10orf65, DHGPS2, DHGPSL, FLJ37472, NPL2
HOMEZ			608119	KIAA1443
HOXA1			142955	HOX1, HOX1F
HOXA10			142957	HOX1, HOX1H
HOXA11			142958	HOX1, HOX1I
HOXA2			604685	HOX1K
HOXA4			142953	HOX1, HOX1D
HOXB1			142968	HOX2, HOX2I

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
HOXB13			604607	
HOXB6			142961	HOX2, HOX2B
HOXC13			142976	HOX3, HOX3G
HOXD10			142984	HOX4, HOX4D
HOXD13			142989	HOX4I, SPD
HOXD4			142981	HOX4, HOX4B
HPCA			142622	DYT2
HPD			609695	4-HPPD, 4HPPD, GLOD3, PPD
HPGD	NM_001363574.2:5		601688	SDR36C1
HPRT1			308000	HGPRT, HPRT
HPS1			604982	BLOC3S1, HPS
HPS3			606118	BLOC2S1, SUTAL
HPS4	NM_001349900.2:10 NM_001349901.1:10 NM_001349904.2:14 NM_001349905.1:14	NM_001349902.1:12 NM_001349903.2:12	606682	BLOC3S2, KIAA1667, LE
HPS5			607521	AIBP63, BLOC2S2, RU2
HPS6			607522	BLOC2S3, FLJ22501
HPSE2			613469	HPA2, HPR2, UFS
HR			602302	ALUNC, AU
HRAS			190020	HRAS1
HRG			142640	HPRG, HRGP
HSD11B1			600713	HSD11, HSD11B, SDR26C1
HSD11B2			614232	SDR9C3
HSD17B10			300256	17b-HSD10, ABAD, CAMR, ERAB, HADH2, MHBD, MRPP2, MRXS10, SDR5C1
HSD17B3			605573	SDR12C2
HSD17B4			601860	DBP, MFE-2, SDR8C1
HSD3B2			613890	SDR11E2
HSD3B7			607764	C(27)-3BETA-HSD, SDR11E3
HSF2			140581	
HSF4			602438	CTM
HSPA1L			140559	HSP70-HOM, hum70t
HSPA9			600548	GRP75, HSPA9B, PBP74, mot-2, mthsp75
HSPB1			602195	CMT2F, HSP27, HSP28, Hs.76067, Hsp25
HSPB3			604624	HSPL27
HSPB6			610695	FLJ32389, Hsp20, PPP1R91
HSPB8			608014	CMT2L, E2IG1, H11, HSP22
HSPG2			142461	PRCAN, SJS1, perlecan

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
HSPH1	NM_001349704.2:19		610703	HSP105A, HSP105B, KIAA0201, NY-CO-25
HTR1A			109760	5-HT1A, ADRB2RL1, ADRBRL1
HTR1B			182131	5-HT1B, 5-HT1DB, HTR1D2, S12
HTR1D			182133	5-HT1D, HT1DA, HTRL, RDC4
HTR1E			182132	5-HT1E
HTR1F			182134	5-HT1F, HTR1EL
HTR2A			182135	5-HT2A, HTR2
HTR2B			601122	5-HT(2B), 5-HT2B
HTR2C			312861	5-HT2C, 5HTR2C, HTR1C
HTR3A			182139	5-HT3A, 5-HT3R, HTR3
HTR3B			604654	5-HT3B
HTR3C			610121	
HTR3D			610122	
HTR3E			610123	
HTR4			602164	5-HT4
HTR5A			601305	5-HT5A
HTR6			601109	5-HT6, 5-HT6R
HTR7			182137	5-HT7
HTRA1			602194	ARMD7, HtrA, IGFBP5-protease, PRSS11
HTRA2			606441	OMI, PARK13, PRSS25
HYCC1	NM_001363466.2:11 NM_001363467.2:11		610531	DRCTNNB1A, FAM126A, HCC, hyccin
ICOS			604558	AILIM, CD278
IDH1			147700	
IFITM5			614757	BRIL, DSPA1, Hrmp1, fragilis4
IFT80			611177	CFAP167, FAP167, KIAA1374, WDR56
IGHM			147020	MU, AGM1
IGHMBP2			600502	CATF1, CMT2S, HCSA, HMN6, SMARD1, SMUBP2, ZFAND7
IGLL1			146770	14.1, CD179B, IGL5, IGLL, IGVPB
IKZF1			603023	Hs.54452, IKAROS, LyF-1, PPP1R92, ZNFN1A1, hik-1
IL21R			605383	CD360
IL7R			146661	CD127, CDw127, IL-7Ralpha, IL7RA, IL7Ralpha, Inc-IL7R, sIL-7R

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
INF2			610982	C14orf151, C14orf173, MGC13251
INPPL1			600829	SHIP2
INS			176730	IDDM1, IDDM2
INVS			243305	NPHP2
IQSEC2			300522	BRAG1, IQ-ArfGEF, KIAA0522, MRX1, MRX18, MRX78
ITGA2B			607759	CD41, CD41B, GP2B, GPIIb, PPP1R93
ITPA			147520	C20orf37, HLC14-06-P, dJ794I6.3
IVD	NM_001354597.3:1 NM_001354598.3:12-13 NM_001354600.3:12-13 NM_001354601.3:12	NM_001354599.3:2 NM_001354600.3:2	607036	ACAD2, IVDH
JAG1			601920	AGS, AHD, AWS, CD339, HJ1, JAGL1
JAK2			147796	JTK10
JAK3			600173	JAK-3, JAK3_HUMAN, JAKL, L-JAK, LJAK
JPH2			605267	JP-2
JUP			173325	CTNNG, DP3, DPIII, PDGB, PG, PKGB
KANSL1			612452	CENP-36, DKFZP727C091, KIAA1267, MSL1v1, NSL1
KARS1			601421	DFNB89, KARS, KARS2
KCNA1			176260	AEMK, HUK1, Kv1.1, MBK1, RBK1
KCNA2			176262	HK4, Kv1.2
KCNA5			176267	HK2, HPCN1, Kv1.5
KCNB1			600397	Kv2.1
KCNC1			176258	Kv3.1
KCNE1			176261	IsK, JLNS2, LQT5, minK
KCNE2			603796	LQT6, MiRP1
KCNH1			603305	Kv10.1, eag, eag1, h-eag, hEAG
KCNH2			152427	HERG, Kv11.1, LQT2, erg1
KCNJ10			602208	Kir1.2, Kir4.1
KCNJ11			600937	BIR, Kir6.2
KCNJ2			600681	IRK1, Kir2.1, LQT7
KCNK3			603220	K2p3.1, TASK, TASK-1, TASK1
KCNMA1			600150	KCa1.1, SLO, mSLO1
KCNQ1			607542	JLNS1, KCNA8, KCNA9, KVLQT1, Kv7.1, LQT, LQT1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
KCNQ2	NM_001382235.1:15		602235	BFNC, EBN, EBN1, ENB1, HNSPC, KCNA11, Kv7.2
KCNQ3			602232	EBN2, Kv7.3
KCNT1			608167	KCa4.1, KIAA1422, SLACK, Slo2.2
KCTD7	NM_001167961.2:5		611725	CLN14, EPM3, FLJ32069
KDM1A			609132	AOF2, BHC110, KDM1, KIAA0601, LSD1
KDM5C	NM_001353979.2:26 NM_001353981.2:26 NM_001353982.2:26 NM_001353984.1:26		314690	DXS1272E, JARID1C, MRX13, SMCX, XE169
KDM6A			300128	UTX
KIF1A	NM_001379635.1:38 NM_001379636.1:36 NM_001379638.1:38 NM_001379639.1:37 NM_001379646.1:38		601255	ATSV, C2orf20, SPG30, UNC104
KIF1B	NM_001365951.3:10, 14 NM_001365952.1:10, 14	NM_001365951.3:15 NM_001365952.1:15	605995	CMT2, CMT2A, HMSNII, KIAA0591, KLP
KIF5A			602821	D12S1889, MY050, NKHC, SPG10
KIT			164920	C-Kit, CD117, PBT, SCFR
KLF1			600599	EKLF
KLF11			603301	FKLF, MODY7, TIEG2, Tieg3
KMT2D			602113	ALR, CAGL114, MLL2, MLL4, TNRC21
KRAS			190070	K-Ras4B, KRAS1, KRAS2
KRIT1			604214	CAM, CCM1
LAMP2			309060	CD107b
LAS1L	NM_001375329.1:12 NM_001375330.1:12 NM_001375331.1:11 NM_001375334.1:12 NM_001375335.1:12 NM_001375336.1:11 NM_001375337.1:11		300964	FLJ12525, Las1
LBR			600024	DHCR14B, TDRD18
LDB3			605906	CMD1C, KIAA0613, PDLIM6, ZASP
LDHA			150000	
LDLR			606945	LDLCQ2
LDLRAP1			605747	ARH, ARH2, DKFZp586D0624, FHCB1, FHCB2, MGC34705
LGI1			604619	EPITEMPIN, EPT, ETL1, IB1099
LIFR			151443	CD118

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
LIG4	NM_001352604.1:2		601837	
LITAF			603795	FLJ38636, PIG7, SIMPLE, TP53I7
LMBRD1			612625	C6orf209, FLJ11240, bA810I22.1, cbIF
LMNA			150330	CMD1A, HGPS, LGMD1B, LMN1, LMNL1, MADA, PRO1
LOX			153455	
LPIN1	NM_001349200.2:13 NM_001349201.2:12		605518	KIAA0188
LPIN2			605519	KIAA0249
LRBA			606453	BGL, CDC4L, LAB300, LBA
LRP5	NM_002335.4:1		603506	BMND1, EVR1, EVR4, HBM, LR3, LRP7, OPPG, OPS, OPTA1, VBCH2
LRSAM1			610933	CMT2P, FLJ31641, RIFLE, TAL
LZTR1			600574	BTBD29, LZTR-1
MAB21L2			604357	
MACF1	NM_001394062.1:1, 4, 37-41, 95, 97, 99 NM_001397473.1:1		608271	ABP620, ACF7, FLJ45612, FLJ46776, KIAA0465, KIAA0754, KIAA1251, Lnc-PMIF, MACF
MAD1L1			602686	HsMAD1, MAD1, PIG9, TP53I9, TXBP181
MAD2L2			604094	FANCV, MAD2B, POLZ2, REV7
MADD	NM_001376571.1:34 NM_001376572.1:34 NM_001376574.1:33 NM_001376575.1:33 NM_001376576.1:33 NM_001376577.1:33 NM_001376578.1:33 NM_001376579.1:32 NM_001376581.1:34 NM_001376583.1:32 NM_001376585.1:33 NM_001376586.1:33 NM_001376595.1:33 NM_001376597.1:33 NM_001376603.1:32 NM_001376604.1:32 NM_001376627.1:33 NM_001376635.1:32	NM_001376596.1:17	603584	DENN, IG20, KIAA0358, RAB3GEP
MAFB			608968	KRML
MAG			159460	GMA, S-MAG, SIGLEC-4A, SIGLEC4A

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
MAGED2			300470	11B6, BCG1, HCA10, JCL-1, MAGE-D2, MAGED, MGC8386
MAGI2	NM_012301.4:22 NM_001301128.2:21		606382	ACVRIP1, AIP1, ARIP1, KIAA0705, MAGI-2
MAGT1			300715	DKFZp564K142, IAP, MRX95, OST3B, SLC58A1
MAMLD1			300120	CG1, CXorf6, F18
MAN1B1			604346	ERMan1, ERManI, MANA-ER, MRT15
MAN2B1			609458	LAMAN, MANB
MANBA			609489	
MAOA			309850	
MAOB			309860	
MAP2K1			176872	MAPKK1, MEK1, PRKMK1
MAP2K2			601263	MEK2, PRKMK2
MAP3K1			600982	MAPKKK1, MEKK, MEKK1
MAP3K6			604468	ASK2, MAPKKK6, MEKK6
MAP3K7			602614	MEKK7, TAK1
MAP3K8			191195	COT, EST, ESTF, MEKK8, Tpl-2, c-COT
MAP4	NM_001384678.1:4 NM_001384679.1:9 NM_001384731.1:3 NM_001384736.1:3 NM_001384738.1:4 NM_001384744.1:3 NM_001384745.1:4, 10 NM_001384748.1:4 NM_001384788.1:3 NM_001384789.1:3 NM_001384790.1:3 NM_001384791.1:3 NM_001384792.1:3 NM_001384793.1:3 NM_001384794.1:3 NM_001384795.1:3, 5 NM_001384796.1:3 NM_001384797.1:3 NM_001384849.1:4 NM_001384859.1:4 NM_001384863.1:4 NM_001384872.1:4 NM_001384873.1:4 NM_001384875.1:4 NM_001385664.1:8 NM_001385675.1:4 NM_001385681.1:3 NM_001385682.1:9-10 NM_001385686.1:3 NM_001385687.1:3, 10		157132	

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
	NM_001385688.1:3, 10 NM_001385689.1:3, 10 NM_001385690.1:4 NM_001385691.1:3 NM_001385692.1:3			
MAPK1			176948	ERK, ERK2, MAPK2, PRKM1, PRKM2, p41mapk
MAPK10			602897	JNK3, PRKM10, p493F12, p54bSAPK
MAPK8IP1	NM_005456.4:3		604641	IB1, JIP-1, JIP1, PRKM8IP
MAPKAP1			610558	MGC2745, MIP1, SIN1
MAPKAPK3			602130	3PK, 3pK, MAPKAP3, MK-3, MK3
MAPKBP1			616786	KIAA0596, NPHP20
MAPRE2			605789	EB1, EB2, RP1
MARK4			606495	FLJ90097, KIAA1860, MARKL1, Nbla00650, PAR-1D
MARS1			156560	CMT2U, MARS, MetRS, SPG70
MARS2			609728	SPAX3, mtMetRS
MASP2			605102	MAP-2, MASP1P1, Map19, sMAP
MAST1			612256	KIAA0973, SAST
MASTL			608221	FLJ14813, Gwl, THC2
MAT1A			610550	MAT, MATA1, SAMS, SAMS1
MATN3			602109	EDM5, HOA
MATN4		NM_001393531.1:9	603897	
MATR3	NM_001400459.1:5	NM_001400441.1:14 NM_001400442.1:16 NM_001400443.1:14 NM_001400444.1:17 NM_001400445.1:13 NM_001400460.1:15 NM_001400461.1:2	164015	KIAA0723, MGC9105, MPD2, VCPDM
MAX			154950	bHLHd4, bHLHd5, bHLHd6, bHLHd7, bHLHd8
MBD1	NM_001399880.1:1 NM_001399906.1:16 NM_001399916.1:1 NM_001399921.1:16 NM_001399926.1:15 NM_001399945.1:15 NM_001399952.1:15 NM_001399953.1:14 NM_001399958.1:14 NM_001399975.1:15	NM_001399880.1:2 NM_001399916.1:2	156535	CXXC3, PCM1
MBD4			603574	MED1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
MBD5		NM_001378120.1:9	611472	FLJ11113, KIAA1461
MBL2			154545	COLEC1, MBL, MBP, MBP-C, MBP1
MBNL1	NM_001314057.2:3 NM_001376818.1:3 NM_001376819.1:4 NM_001376837.1:2 NM_001387781.1:4 NM_001387782.1:3 NM_001387783.1:3 NM_001387784.1:3 NM_001387791.1:2 NM_001387797.1:3 NM_001387798.1:2 NM_001387799.1:3 NM_001387800.1:2 NM_001387803.1:2		606516	EXP, EXP35, EXP40, EXP42, KIAA0428, MBNL
MBOAT7			606048	BB1, LENG4, LPIAT1, LPLAT, LPLAT11, hMBOA-7
MBTPS2			300294	KFSD, S2P
MC1R			155555	MSH-R
MC2R			607397	ACTHR
MC3R			155540	MC3
MC4R			155541	
MCC			159350	
MCCC1			609010	MCCA, MCCCα
MCEE			608419	GLOD2, MCE, MMCE
MCFD2			607788	F5F8D, LMAN1IP, SDNSF
MCHR1			601751	GPR24, MCH1R, SLC1
MCIDAS			614086	IDAS, MCI, MCIN
MCM2			116945	BM28, CCNL1, CDCL1, D3S3194, DFNA70, KIAA0030, cdc19
MCM3AP			603294	GANP, KIAA0572, Map80, SAC3
MCM4			602638	CDC21, CDC54, MGC33310, P1-Cdc21, hCdc21
MCM6			601806	Mis5
MCM7			600592	CDC47, MCM2, PPP1R104
MCM8			608187	C20orf154, MGC119522, MGC119523, MGC12866, MGC4816, REC, dJ967N21.5
MCM9	NM_001378361.1:4 NM_001378362.1:3 NM_001378363.1:4 NM_001378365.1:8 NM_001378367.1:4 NM_001378370.1:3	NM_001378369.1:6 NM_001378372.1:7	610098	C6orf61, FLJ20170, MCMDC1, MGC35304, dJ329L24.3

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
	NM_001378371.1:6 NM_001378372.1:4			
MCPH1	NM_001322042.2:14 NM_001363979.1:14		607117	BRIT1, FLJ12847
MCTP2	NM_001385007.1:4 NM_001385011.1:4, 19		616297	FLJ11175, FLJ33303
MDH2			154100	
MDM2			164785	HDM2, MGC5370
ME2			154270	
MECOM			165215	EVI1, KMT8E, MDS1, MDS1-EVI1, PRDM3
MECP2			300005	MRX16, MRX79, RTT
MECR	NM_001349715.2:2 NM_001349716.2:2		608205	CGI-63, ETR1, FASN2B, NRBF1
MED12			300188	ARC240, CAGH45, FGS1, HOPA, KIAA0192, Kto, OKS, OPA1, TNRC11, TRAP230
MED13L			608771	KIAA1025, THRAP2, TRAP240L
MED17			603810	CRSP6, CRSP77, DRIP80, SRB4, TRAP80
MED20			612915	DKFZp586D2223, PRO0213, SRB2, TRFP
MED23			605042	CRSP130, CRSP3, DRIP130, MRT18, Sur2
MED25	NM_001378355.1:18		610197	ACID1, ARC92, DKFZp434K0512, TCBAP0758
MEF2A	NM_001365210.2:8 NM_001365211.2:8 NM_001400070.1:7 NM_001400071.1:7		600660	RSRFC4, RSRFC9
MEF2C			600662	
MEFV (NM_000243)			608107	FMF, MEF, TRIM20
MEGF8			604267	C19orf49, EGFL4, FLJ22365, SBP1
MEIS1			601739	
MEIS2			601740	HsT18361, MRG1
MEN1 (NM_130799)			613733	
MEOX1			600147	MOX1
MEOX2			600535	GAX, MOX2
MESP1			608689	MGC10676, bHLHc5
MESP2			605195	SCDO2, bHLHc6
MET			164860	DFNB97, HGFR, RCCP2
METTL21A	NM_001393568.1:4 NM_001393571.1:4 NM_001393572.1:4		615257	FAM119A, HCA557b, HSPA-KMT, LOC1511194

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
METTL23			615262	C17orf95, LOC124512
MFAP5			601103	MAGP2, MP25
MFF			614785	C2orf33, GL004
MFGE8			602281	BA46, EDIL1, HsT19888, MFG-E8, OAcGD3S, SED1, SPAG10, hp47
MFN2			608507	CMT2A2, CPRP1, KIAA0214, MARF
MFRP			606227	C1QTNF5, FLJ30570, NNO2, rd6
MFSD2A			614397	FLJ14490, MFSD2, SLC59A1
MFSD8			611124	CLN7, MGC33302
MGAT2			602616	GNT-II
MGLL	NM_001388312.1:6 NM_001388313.1:6 NM_001388315.1:4, 7 NM_001388317.1:4 NM_001388318.1:4	NM_001388314.1:7	609699	HU-K5, MAGL, MGL
MGME1			615076	C20orf72, DDK1, bA504H3.4
MGMT			156569	
MGP			154870	
MGST2			601733	MGST-II
MIA			601340	CD-RAP
MIB1			608677	DIP-1, KIAA1323, MIB, ZZANK2, ZZZ6
MICA			600169	PERB11.1
MICOS13			616658	C19orf70, MIC12, MIC13, P117, QIL1
MICU1	NM_001363513.1:6		605084	CALC, CBARA1, EFHA3, FLJ12684
MID1			300552	FXY, OS, RNF59, TRIM18
MID2			300204	FXY2, MRX101, RNF60, TRIM1
MINPP1			605391	MIPP
MIP			154050	AQP0, LIM1, MP26
MIPEP			602241	MIP
MIR125A			611191	MIRN125A, hsa-mir-125a
MIR17HG			609415	C13orf25, FLJ14178, LINC00048, MIHG1, MIRH1, MIRHG1, NCRNA00048, miR-17-92
MIR184			613146	MIRN184, hsa-mir-184
MIR2861			613405	hsa-mir-2861
MIR30C1			615151	MIRN30C1, hsa-mir-30c-1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
MIR96			611606	DFNA50, MIRN96, hsa-mir-96
MITF	NM_001354607.2:2		156845	MI, WS2, WS2A, bHLHe32
MKKS	NM_001394148.1:2 NM_001394149.1:3		604896	BBS6
MKRN3			603856	D15S9, MGC88288, RNF63, ZFP127, ZNF127
MKS1			609883	BBS13, FLJ20345, MKS, POC12
MLC1			605908	KIAA0027, LVM, MLC, VL
MLH1			120436	COCA2, FCC2, HNPCC, HNPCC2, MLH-1
MLH3			604395	
MLLT10	NM_001195627.1:4		602409	AF10
MLPH			606526	Slac-2a, exophilin-3, I(1)-3Rk, I1Rk3, In
MLST8			612190	GBL, GbetaL, Lst8, Pop3
MLYCD			606761	MCD, hMCD
MMAA			607481	cbIA
MMAB			607568	CFAP23, cbIB
MMACHC			609831	DKFZP564I122, cbIC
MMADHC			611935	C2orf25, CL25022, cbID
MME	NM_001354644.1:4		120520	CALLA, CD10, NEP
MMEL1			618104	MMEL2, NEPII, NL1, NL2, SEP
MMGT1				EMC5, TMEM32
MMP1			120353	CLG
MMP13			600108	CLG3
MMP14			600754	MT1-MMP
MMP19			601807	MMP18, RASI-1
MMP2			120360	CLG4, CLG4A, TBE-1
MMP20			604629	
MMP21			608416	
MMP23B	NM_006983.2:2-8		603321	MIFR, MIFR-1, MMP22
MMP25			608482	MMP20, MMPL1, MT6-MMP
MMP9			120361	CLG4B
MMS22L			615614	C6orf167, dJ39B17.2
MMUT			609058	MCM, MUT
MN1			156100	MGCR, MGCR1, MGCR1-PEN
MNX1	NM_005515.4:1		142994	HB9, HLXB9, HOXHB9, SCRA1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
MOB4			609361	2C4D, CGI-95, DKFZP564M112, MOB3, MOBKL3, PHOCN, PREI3
MOBP			600948	
MOCOS			613274	FLJ20733, HMCS, MOS
MOCS1	NM_001358529.2:10 NM_001358530.2:11 NM_001358531.2:10		603707	MOCOD
MOCS2			603708	MOC01, MOCS2A, MOCS2B
MOG		NM_001363610.2:7	159465	BTN6, BTNL11
MOGS			601336	CWH41, DER7, GCS1
MORC2			616661	AC004542.C22.1, KIAA0852, ZCW3, ZCWCC1
MOV10			610742	MGC2948, fSAP113, gb110
MPC1			614738	BRP44L, CGI-129, SLC54A1, dJ68L15.3
MPDU1			604041	CDGIf, Lec35, PQLC5, SL15, SLC66A5
MPDZ	NM_001375413.1:32		603785	MUPP1
MPI			154550	
MPL			159530	CD110, THPOR, TPOR
MPLKIP			609188	C7orf11, ORF20, TTDN1
MPO			606989	
MPP2			600723	DKFZp761D0712, DLG2
MPP3		NM_001353080.1:7	601114	DLG3
MPZ			159440	CMT1, CMT1B, CMT2I, CMT2J, HMSNIB, PO
MR1		NM_001385163.1:3	600764	HLALS
MRAP			609196	B27, C21orf61, FALP
MRAP2			615410	C6orf117, bA51G5.2
MRAS			608435	M-RAs, R-RAS3, RRAS3
MRI1			615105	MGC3207, MRDI, Ypr118w, mtnA
MRPL10			611825	L10MT, MGC17973, MRP-L10, MRP-L8, MRPL8, RPML8
MRPL12			602375	MRPL7, MRPL7/L12, RPML12
MRPL3			607118	MRL3, RPML3
MRPL33			610059	C2orf1, RPL33L
MRPL44			611849	FLJ12701, FLJ13990
MRPS23			611985	CGI-138, HSPC329, MRP-S23
MRPS7			611974	MRP-S, RP-S7, RPMS7
MS4A1			112210	B1, Bp35, CD20, FMC7

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
MS4A2			147138	APY, FCER1B, IGER
MS4A6A			606548	CD20L3, MS4A6
MS4A6E			608402	
MS4A7			606502	CD20L4, CFFM4, MS4A8
MSH2			609309	COCA1, HNPCC, HNPCC1, MSH-2
MSH3			600887	DUP, MRP1
MSH4			602105	
MSH5			603382	G7
MSH6			600678	GTBP, MSH-6
MSM01			607545	DESP4, ERG25, SC4MOL
MSN			309845	
MSR1	NM_001363744.1:1		153622	CD204, SCARA1, SR-A, SR-AI, SR-AII, SR-AIII
MST1R			600168	CD136, CDw136, PTK8, RON, SEA
MSTN			601788	GDF8
MSX1			142983	HOX7, HYD1, OFC5
MTAP	NM_001396040.1:1 NM_001396041.1:8 NM_001396042.1:7 NM_001396043.1:8 NM_001396044.1:8-10 NM_001396045.1:7-9		156540	MSAP, c86fus
MTCP1			300116	P13MTCP1, TCL1C, p8MTCP1
MTFMT			611766	FMT1
MTHFD1	NM_001364837.1:27		172460	MTHFC, MTHFD
MTHFD1L	NM_001350490.1:2	NM_001350489.2:7	611427	DKFZP586G1517, FLJ21145, FTHFSDC1
MTHFD2			604887	
MTHFD2L	NM_001351310.1:9 NM_001351311.1:8 NM_001351314.2:5 NM_001351329.1:2 NM_001351331.2:2-3		614047	MGC72244
MTHFR			607093	
MTHFS			604197	HsT19268
MTMR1	NM_001353990.2:3		300171	
MTMR14	NM_001400518.1:2 NM_001400521.1:2 NM_001400526.1:2		611089	C3orf29, FLJ22405, FLJ90311, hEDTP, hJumpy
MTMR2			603557	CMT4B, KIAA1073
MTNR1A			600665	MEL-1A-R
MTNR1B			600804	
MT01			614667	

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
MTOR			601231	FLJ44809, FRAP, FRAP1, FRAP2, RAFT1, RAPT1
MTPAP			613669	FLJ10486, PAPD1, SPAX4, TENT6
MTR			156570	cbIG
MTRFR			613541	C12orf65, COXPD7, FLJ38663, SPG55, mtRF-R
MTRR			602568	cbIE
MTSS2			616951	ABBA, ABBA-1, LOC92154, MTSS1L
MTTP			157147	ABL, MTP
MUC1	NM_001204285.2:3 NM_001204286.1:3	NM_001371720.1:2-3	158340	ADMCKD, ADMCKD1, CD227, Ca15-3, EMA, KL-6, MCD, MCKD, MCKD1, PEM, PUM
MUC5B	NM_002458.3:31		600770	MG1, MUC5
MUTYH (NM_001128425)			604933	MYH
MVD			603236	MPD
MVK			251170	LRBP, MK
MXI1			600020	MAD2, MXD2, MXI, bHLHc11
MYB			189990	c-myb
MYBPC1			160794	ssMyBP-C
MYBPC3			600958	CMH4, FHC, cMyBP-C
MYC			190080	MYCC, bHLHe39, c-Myc
MYCBP2			610392	FLJ10106, KIAA0916, PAM, PHR1
MYF6			159991	MRF4, bHLHc4
MYH10			160776	NMMHCB
MYH11			160745	SMHC, SMMHC, SMMS-1
MYH3			160720	HEMHC, MYHC-EMB, MYHSE1, SMHCE
MYH7B			609928	KIAA1512, MHC14, MYH14, dJ756N5.1, IncMYH7b
MYH8	NM_002472.3:5		160741	MyHC-peri, MyHC-pn
MYH9			160775	DFNA17, EPSTS, FTNS, MHA, NMHC-II-A, NMMHCA
MYL2			160781	CMH10
MYL3			160790	CMH8, MLC1SB, MLC1V, VLC1
MYL4			160770	ALC1, AMLC, GT1, PRO1957
MYL9			609905	LC20, MLC2, MRLC1, MYRL2
MYLIP			610082	IDOL, MIR

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
MYLK			600922	KRP, MLCK, MLCK1, MLCK108, MLCK210, MYLK-L, MYLK1, Telokin, smMLCK
MYO1A			601478	BBMI, DFNA48, MYHL
MYO1C	NM_001363855.1:1		606538	Myo1C, NMI, myr2
MYO1E			601479	HuncM-1C, MGC104638, MYO1C
MYO1F			601480	
MYO5A	NM_001382347.1:33 NM_001382348.1:2, 34 NM_001382349.1:2		160777	GS1, MYH12, MYO5, MYR12
MYO5B			606540	KIAA1119
MYO9A			604875	FLJ11061, FLJ13244, MGC71859
MYOC			601652	GLC1A, JOAG1, TIGR
MYOCD			606127	MYCD
MYOD1			159970	MYF3, MYOD, PUM, bHLHc1
MYOM1			603508	
MYT1			600379	MTF1, MYT1, NZF2, PLPB1, ZC2H2C1, ZC2HC4A
MYT1L			613084	KIAA1106, NZF1, ZC2H2C2, ZC2HC4B
NAA10			300013	ARD1, ARD1A, DXS707, TE2
NAA15			608000	FLJ13340, NARG1, NATH, TBDN100
NADK2			615787	C5orf33, FLJ30596, MNADK, NADKD1
NAGA			104170	D22S674
NAGLU			609701	NAG
NAGPA			607985	APAA, UCE
NAGS			608300	AGAS, ARGA, NAT7
NALCN	NM_001350748.2:19		611549	Canlon, VGCNL1, ba430M15.1
NAMPT	NM_005746.3:11		608764	PBEF, PBEF1
NANOS1			608226	NOS1, ZC2HC12A
NANOS3			608229	NANOS1L, NOS3, ZC2HC12C
NANS			605202	SAS
NARS2			612803	DFNB94, FLJ23441, SLM5
NAT10			609221	FLJ10774, FLJ12179, KIAA1709, Kre33, NET43, hALP
NAT2			612182	AAC2

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
NAT8			606716	ATase2, GLA, Hcml1, TSC501
NAT8L			610647	FLJ37478, Hcml3, Shati
NAXE			608862	AIBP, APOA1BP, MGC119143, MGC119144, MGC119145, YJEFN1
NBAS			608025	NAG
NBEAL2	NM_001365116.2:1		614169	KIAA0540
NBN			602667	AT-V1, AT-V2, ATV, NBS, NBS1
NCAPD2			615638	CAP-D2, CNAP1, KIAA0159, hCAP-D2
NCAPD3	NM_001372065.1:34		609276	CAP-D3, FLJ42888, KIAA0056, hCAP-D3, hHCP-6, hcp-6
NCAPH			602332	BRRN1, CAP-H, hCAP-H
NCF2			608515	NOXA2, p67phox
NCF4			601488	SH3PXD4, p40phox
NCOA6			605299	AIB3, ASC2, KIAA0181, NRC, PRIP, RAP250, TRBP
NCSTN			605254	APH2, KIAA0253
NDE1			609449	FLJ20101, NDE, nudE
NDN			602117	HsT16328, PWCR
NDRG1		NM_001374844.1:8	605262	CAP43, DRG1, NDR1, RTP, TDD5
NDRG4	NM_001378337.1:1 NM_001378341.1:1 NM_001378343.1:1		614463	KIAA1180, SMAP-8
NDST1			600853	HSST, NST1
NDUFA10			603835	CI-42k
NDUFA12			614530	B17.2, DAP13
NDUFA13			609435	B16.6, CDA016, CGI-39, GRIM-19, GRIM19
NDUFA4			603833	CI-9k, COXFA4, MISTR1, MLRQ, MRCAF1
NDUFA7			602139	B14.5a
NDUFA8			603359	MGC793, PGIV
NDUFA9			603834	CI-39k, COQ11, NDUFS2L, SDR22E1
NDUFAF6	NM_001354516.1:3 NM_001354534.1:9		612392	C8orf38, MGC40214
NDUFAF7			615898	C2orf56, MidA, PRO1853
NDUFB11			300403	ESSS, NP17.3, Np15
NDUFB3			603839	B12
NDUFB8			602140	ASHI, CI-ASHI
NDUFB9			601445	B22, LYRM3, UQOR22

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
NDUFV3			602184	CI-10k
NECAP1			611623	DKFZP566B183
NECTIN1			600644	CD111, CLPED1, ED4, HlgR, HVEC, Nectin-1, OFC7, PRR, PRR1, PVRL1, PVRR1, SK-12
NECTIN4			609607	LNIR, PRR4, PVRL4, nectin-4
NEDD4L			606384	KIAA0439, NEDD4-2, RSP5
NEDD9			602265	CAS-L, CASS2, HEF1
NEFH			162230	NF-H, NFH
NEFL			162280	CMT1F, CMT2E, NF68, NFL, PPP1R110
NEFM			162250	NEF3, NF-M, NFM
NEIL2			608933	FLJ31644, MGC2832, MGC4505, NEH2
NEK1	NM_001374422.1:17 NM_001374423.1:16		604588	KIAA1901, NY-REN-55
NEK11	NM_001321221.2:5 NM_001353022.2:5 NM_001353026.2:4 NM_001353033.2:6 NM_001353034.2:5		609779	FLJ23495
NEK2	NM_001204182.1:8		604043	NEK2A, NLK1, PPP1R111, RP67
NEK8			609799	NPHP9
NELL1			602319	FLJ45906, IDH3GL
NEU1			608272	NEU
NEUROD1			601724	BETA2, BHF-1, MODY6, NEUROD, NeuroD, bHLHa3
NEUROG3			604882	Atoh5, Math4B, bHLHa7, ngn3
NEXMIF			300524	KIAA2022, KIDLIA, MRX98, XPN
NEXN			613121	NELIN, nexilin
NF1 (NM_001042492)			613113	
NF2			607379	ACN, BANF, SCH, merlin, merlin-1
NFAT5			604708	KIAA0827, NF-AT5, NFATL1, NFATZ, OREBP, TONEBP
NFATC1			600489	NF-ATC, NFAT2, NFATc
NFIA			600727	KIAA1439, NFI-L
NFIX	NM_001365902.3:1 NM_001365982.2:1 NM_002501.4:1	NM_001365984.2:1 NM_001365985.2:1 NM_001378405.1:1	164005	NF1A

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
NFKB1			164011	KBF1, NF-kB1, NF-kappaB, NFKB-p50, NFKappaB, p105, p50
NFKB2			164012	LYT-10, NF-kB2, p105, p49/p100, p52
NFKBIA			164008	IKBA, I kappa B alpha, MAD-3, NFKBI
NFS1			603485	IscS, Nifs
NFU1			608100	CGI-33, HIRIP5, NIFUC, NifU
NGF			162030	NGFB
NGFR			162010	CD271, TNFRSF16, p75NTR
NGLY1			610661	FLJ11005, PNG-1, PNG1
NHEJ1			611290	Cernunnos, FLJ12610, XLF
NHERF1			604990	EBP50, NHE-RF, NHERF, NHERF-1, SLC9A3R1
NHLRC1			608072	EPM2B, bA204B7.2
NHP2	NM_001396110.1:4		606470	FLJ20479, NOLA2
NHS			300457	
NID1			131390	NID, entactin
NIPA2			608146	SLC57A2
NIPAL4			609383	ICHYN, SLC57A6
NIPBL			608667	DKFZp434L1319, FLJ11203, FLJ12597, FLJ13354, FLJ13648, IDN3, Sc2
NKX2-2			604612	NKX2.2, NKX2B
NKX2-5			600584	CSX, CSX1, NKX2.5, NKX2E, NKX4-1
NKX2-6			611770	CSX2, NKX4-2
NKX3-2			602183	BAPX1, NKX3.2, NKX3B
NLGN1	NM_001365923.2:3 NM_001365924.2:3 NM_001365925.2:3 NM_001365926.2:3 NM_001365927.2:3 NM_001365928.2:3		600568	KIAA1070
NLGN2			606479	KIAA1366
NLGN3			300336	ASPGX1, AUTSX1, HNL3, KIAA1480
NLGN4Y	NM_014893.4:5 NM_001206850.2:5 NM_001365584.1:6 NM_001365586.1:6 NM_001365588.1:6 NM_001365590.1:7 NM_001365591.1:5		400028	KIAA0951

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
	NM_001365592.1:5 NM_001365593.1:5 NM_001394830.1:6 NM_001394831.1:5			
NLRC4	NM_021209.4:2 NM_001199138.2:2 NM_001199139.1:2 NM_001302504.1:2		606831	CARD12, CLAN, CLAN1, CLANA, CLANB, CLANC, CLAND, CLR2.1, ipaf
NLRP1			606636	CARD7, CLR17.1, DEFCAP, DKFZp58601822, KIAA0926, NAC, NALP1, SLEV1, VAMAS1
NLRP12			609648	CLR19.3, Monarch1, NALP12, PAN6, PYPAF7, RNO2
NLRP14			609665	CLR11.2, GC-LRR, NALP14, NOD5, Nalp-iota, PAN8
NLRP3			606416	AGTAVPRL, AII, AVP, C1orf7, CIAS1, CLR1.1, DFNA34, FCAS, FCU, MWS, NALP3, PYPAF1
NME1			156490	NDPKA, NM23, NM23-H1
NME7			613465	CFAP67, FLJ37194, NM23-H7
NME8			607421	CILD6, DNAI8, NM23-H8, SPTRX2, TXNDC3
NNT			607878	
NOBOX			610934	OG2, Og2x
NOD1			605980	CARD4, CLR7.1, NLRC1
NOD2			605956	BLAU, CARD15, CD, CLR16.3, IBD1, NLRC2, PSORAS1
NODAL			601265	
NOG			602991	SYM1, SYNS1
NOL3			605235	ARC, CARD2, MYP, NOP30
NONO			300084	NMT55, NRB54, P54, P54NRB, PPP1R114
NOP10			606471	MGC70651, NOLA3, NOP10P
NOP56			614154	NOL5A, SCA36
NOS1			163731	NOS, nNOS
NOS1AP			605551	CAPON, KIAA0464
NOS3			163729	ECNOS, eNOS
NOTCH1			190198	TAN1
NOTCH2	NM_024408.4:1-4 NM_001200001.1:1-4		600275	
NOTCH3 (NM_000435)	NM_000435.3:1		600276	CADASIL, CASIL

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
NOX1			300225	GP91-2, MOX1, NOH-1, NOH-1L, NOH1
NPAS2			603347	MOP4, PASD4, bHLHe9
NPAT			601448	E14, p220
NPC1			607623	SLC65A1
NPC1L1			608010	SLC65A2
NPC2		NM_001363688.1:4	601015	EDDM1, HE1, NP-C2
NPEPPS	NM_006310.4:1-12 NM_001330257.2:1-13		606793	MP100, PSA
NPHP1	NM_001374257.1:20		607100	JBTS4, NPH1, SLSN1
NPHP3			608002	CFAP31, FLJ30691, FLJ36696, KIAA2000, MKS7, NPH3, SLSN3
NPHP4			607215	KIAA0673, POC10, SLSN4
NPHS1			602716	CNF, NPHN
NPHS2			604766	PDCN, SRN1
NPM1			164040	B23, NPM
NPPA			108780	ANP, PND
NPR2			108961	AMDM, ANPRB, ANPb, GC-B, GUCY2B, NPRB
NPRL2			607072	NPR2, NPR2L, TUSC4
NPRL3			600928	C16orf35, CGTHBA, HS-40, MARE, NPR3, RMD11
NQO1			125860	DHQU, DIA4, DTD, NMOR1, QR1
NR0B1			300473	AHC, AHCH, DAX1, DSS
NR0B2			604630	SHP
NR1D2			602304	BD73, EAR-1r, HZF2, Hs.37288, REVERBB, REVERBBeta, RVR
NR1H3			602423	LXR-a, LXRa, RLD-1
NR1H4			603826	FXR, HRR-1, HRR1, RIP14
NR1I2			603065	BXR, ONR1, PAR2, PXR, SXR
NR1I3			603881	CAR, CAR1, MB67
NR2E1			603849	TLL, TLX, XTLL
NR2F1		NM_005654.6:1	132890	COUP-TF1, COUPTF1, EAR-3, ERBAL3, SVP44, TCFCOUP1, TFCOUP1
NR2F2			107773	ARP1, COUP-TFII, COUPTF2, COUPTFB, NF-E3, SVP40, TFCOUP2
NR3C1			138040	GR, GRL
NR4A2			601828	HZF-3, NOT, NURR1, RNR1, TINUR
NR4A3			600542	CHN, CSMF, MINOR, NOR1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
NR5A1			184757	AD4BP, ELP, FTZ1, FTZF1, SF-1, SF1, hSF-1
NRAS			164790	N-ras
NRG1			142445	GGF, HGL, HRG, NDF, NRG1-IT2
NRGN			602350	RC3
NRP1			602069	CD304, NRP, VEGF165R
NRTN			602018	NTN
NRXN1			600565	Hs.22998, KIAA0578
NRXN2			600566	
NRXN3	NM_001366426.1:5		600567	C14orf60, KIAA0743
NSD1			606681	ARA267, FLJ22263, KMT3B, STO
NSD2			602952	KMT3G, MMSET, WHSC1
NSD3			607083	FLJ20353, KMT3F, WHISTLE, WHSC1L1
NSDHL			300275	H105e3, SDR31E1, XAP104
NSMCE2		NM_001349487.1:5	617246	C8orf36, FLJ32440, MMS21, NSE2, ZMIZ7
NSMCE3			608243	HCA4, MAGEG1, MAGEL3, NDNL2, NSE3
NSMF			608137	NELF
NSUN2			610916	FLJ20303, MRT5, Misu, SAKI, TRM4
NSUN3			617491	FLJ22609
NSUN7			617185	FLJ14001
NT5C2	NM_001351170.1:6 NM_001351171.1:7 NM_001351172.1:7 NM_001351173.1:6 NM_001351174.1:1 NM_001351175.1:5		600417	GMP, NT5B, PNT5, SPG45, SPG65, cN-II
NT5C3A			606224	NT5C3, P5'N-1, PN-I, POMP, PSN1, UMPH, UMPH1, cN-III, hUMP1, p36
NT5E			129190	CALJA, CD73, NT5, eN, eNT
NTF4			162662	GLC10, NT-4/5, NTF5
NTHL1			602656	NTH1, OCTS3
NTNG1			608818	KIAA0976, Lmnt1
NTRK1			191315	MTC, TRK, TRKA
NTRK2	NM_001369547.1:13		600456	TRKB
NTRK3			191316	TRKC
NUB1			607981	BS4, NUB1L, NYREN18
NUDC			610325	
NUDT15			615792	FLJ10956, MTH2
NUMA1			164009	NUMA

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
NUP107			607617	NUP84
NUP155			606694	KIAA0791, N155
NUP205			614352	C7orf14, KIAA0225
NUP214			114350	CAIN, CAN, D9S46E, N214
NUP62			605815	DKFZp547L134, FLJ20822, FLJ43869, IBSN, MGC841, SNDI, p62
NUP93			614351	KIAA0095
NUS1	NM_138459.5:1, 5		610463	C6orf68, MGC7199, NgBR, TANGO14
NXF5	NM_032946.2:7, 10-13		300319	
NXPH2			604635	NPH2
NXPH3			604636	NPH3
NYX			300278	CLRP, CSNB1, CSNB1A, CSNB4
OARD1			614393	C6orf130, MGC19570, TARG1, dJ34B21.3
OAT			613349	HOGA
OBSL1			610991	KIAA0657
OCA2			611409	BEY, BEY1, BEY2, D15S12, EYCL, EYCL2, EYCL3, P
OCLN	NM_002538.4:5-9 NM_001205254.2:5-9 NM_001205255.1:3-7		602876	PPP1R115
OCRL			300535	Dent-2, OCRL1
ODAD1	NM_001364171.2:3	NM_001364171.2:4	615038	CCDC114, CILD20, FLJ32926
ODAD2	NM_018076.5:9 NM_001290020.2:9 NM_001290021.2:13 NM_001312689.2:4		615408	ARMC4, CILD23, DKFZP434P1735, FLJ10376, FLJ10817, gudu
ODAD3			615956	CCDC151, MGC20983, ODA10
ODAPH			614829	AI2A4, C4orf26, FLJ23657
ODC1			165640	ODC
OFD1			300170	71-7A, CXorf5, JBTS10, RP23
OGDHL			617513	FLJ10851
OGG1			601982	HMMH, HOGG1, MUTM, OGH1
OGT			300255	FLJ23071, HRNT1, MGC22921, O-GLCNAC, OGT1
OLFM2			617492	NOE2, OlfC
OLR1			602601	CLEC8A, LOX-1, SCARE1
OMG			164345	OMGP
OPCML			600632	IGLON1, OBCAM, OPCM

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
OPHN1			300127	ARHGAP41, MRX60, OPN1
OPN1SW			613522	BCP, BOP, CBT
OPRD1			165195	
OPRK1			165196	KOR, OPRK
OPRM1			600018	MOP, MOR1
OPTC			605127	
OPTN			602432	FIP-2, FIP2, GLC1E, HIP7, HYPL, NRP, TFIIIA-INTP
OR2W3			616729	OR2W3P, OR2W8P, OST718
ORAI1			610277	CRACM1, FLJ14466, TMEM142A
ORC1			601902	HSORC1, ORC1L, PARC1
ORC4			603056	HsORC4, ORC4L, Orc4p
ORC6			607213	ORC6L
OSMR			601743	OSMRB, OSMRbeta
OSTM1			607649	GL, HSPC019
OTC			300461	OTC1, OTCD, OTCase
OTOR			606067	FDP, MIAL, MIAL1
OTULIN			615712	FAM105B, FLJ34884
OTX2			600037	
OVOL2			616441	CHED, CHED1, HOVO2, ZNF339, ba504H3.3
OXCT1	NM_001364299.2:5 NM_001364300.2:1 NM_001364303.1:1		601424	OXCT, SCOT
OXTR			167055	OTR
P2RX7			602566	MGC20089, P2X7
P2RY11			602697	P2Y11
P2RY12			600515	HORK3, P2Y12, SP1999
P3H1			610339	GROS1, LEPRE1, LEPRECAN, MGC117314
P3H2			610341	FLJ10718, LEPREL1, MLAT4
P4HA2			600608	C-P4Halpha(II), lncRNA-PE
P4HB			176790	DSI, ERBA2L, GIT, P4Hbeta, PDI, PDIA1, PO4DB, PO4HB, PROHB
PABPN1			602279	OPMD, PAB2, PABP2
PACRG	NM_152410.2:6		608427	FLJ32724, Glup, HAK005771, PARK2CRG
PACS1			607492	FLJ10209, KIAA1175
PADI3			606755	PDI3
PAFAH1B1			601545	LIS1, MDCR, MDS, NudF, PAFAH

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PAFAH1B2			602508	
PAH			612349	PH
PAK3			300142	MRX30, MRX47, bPAK, hPAK3
PALB2			610355	FANCN, FLJ21816
PAM16			614336	Magmas, TIMM16, Tim16
PANK2			606157	C20orf48, FLJ11729, HARP, HSS, NBIA1, PKAN
PANX1			608420	MRS1, PX1, UNQ2529
PARK7			602533	DJ-1, DJ1, GATD2
PARN			604212	DAN
PARP1			173870	ADPRT, ARTD1, PARP, PARS, PPOL, Poly-PARP
PARP10			609564	ARTD10, FLJ14464
PARS2			612036	DKFZp727A071
PASK			607505	KIAA0135, PASKIN, STK37
PAX1			167411	
PAX2	NM_001374303.1:3		167409	PAX-2
PAX4	NM_001366110.1:3 NM_001366111.1:1, 10		167413	MODY9
PAX5			167414	BSAP, PAX-5
PAX6	NM_001368910.2:5	NM_001368910.2:3-4 NM_001368911.2:1, 10 NM_001368912.2:13 NM_001368913.2:12 NM_001368914.2:13 NM_001368915.2:12 NM_001368916.2:11 NM_001368917.2:12 NM_001368918.2:4 NM_001368919.2:5 NM_001368920.2:4 NM_001368921.2:13 NM_001368929.2:9	607108	AN, AN1, AN2, D11S812E, WAGR
PAX8			167415	PAX-8
PAX9			167416	
PBRM1	NM_001350074.2:3, 17 NM_001350076.2:3, 17 NM_001350077.2:4, 18 NM_001350078.2:3, 17 NM_001350079.2:3 NM_001366070.2:2, 16 NM_001366071.2:2, 28 NM_001366072.2:2 NM_001366073.2:2 NM_001366074.2:3 NM_001366075.2:2, 16 NM_001366076.2:2, 15 NM_001394867.1:28 NM_001394868.1:27	NM_001400472.1:14	606083	BAF180, PB1, SMARCH1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
	NM_001394869.1:28 NM_001394870.1:2 NM_001394871.1:27 NM_001394878.1:3 NM_001394879.1:26 NM_001394880.1:2 NM_001400470.1:27 NM_001400471.1:15, 28 NM_001400473.1:27			
PCBD1			126090	DCOH, PCBD, PCD
PCCA	NM_001352609.2:22		232000	
PCCB			232050	
PCDH12			605622	
PCDH19			300460	EFMR, EIEE9, KIAA1313
PCDHA3			606309	PCDH-ALPHA3
PCDHB4			606330	PCDH-BETA4
PCLO			604918	ACZ, DKFZp779G1236, KIAA0559
PCM1	NM_001352632.2:7 NM_001352633.2:9 NM_001352636.2:7 NM_001352637.2:7 NM_001352638.2:8 NM_001352643.2:7, 28 NM_001352650.2:9 NM_001352651.2:6 NM_001352654.2:26 NM_001352655.2:27 NM_001352656.2:28 NM_001352657.2:29 NM_001352658.2:27 NM_001352659.1:7 NM_001352660.1:9	NM_001352633.2:27	600299	PTC4
PCNA			176740	
PCNT			605925	KEN, KIAA0402, PCN, PCNT2, PCNTB, SCKL4
PCOLCE2			607064	PCPE2
PCSK1			162150	NEC1, PC1, PC1/3, PC3, SPC3
PCSK7	NM_004716.4:13-17		604872	LPC, PC7, PC8, SPC7
PCSK9			607786	FH3, HCHOLA3, NARC-1
PCYT1A			123695	CCTalpha, CT, CTPCT, PCYT1
PDCD1			600244	CD279, PD-1, PD1, SLEB2, hSLE1
PDCD10			609118	CCM3, TFAR15
PDE10A		NM_001385079.1:1	610652	
PDE11A			604961	

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PDE3A	NM_001378408.1:17 NM_001378409.1:15		123805	CGI-PDE
PDE4D	NM_001349241.2:3 NM_001349242.1:3 NM_001364600.2:8 NM_001364602.2:6		600129	DPDE3
PDE5A			603310	
PDE6C			600827	ACHM5, COD4, PDEA2
PDE6D			602676	JBTS22
PDE6G			180073	PDEG, RP57
PDE6H			601190	
PDE8B	NM_001349749.3:2 NM_001349750.3:1-2 NM_001349752.3:1 NM_001376062.1:1 NM_001376066.1:1 NM_001376069.1:1-2 NM_001376070.1:1 NM_001376071.1:1 NM_001376072.1:1 NM_001376073.1:1 NM_001376074.1:1		603390	
PDGFB			190040	SIS, SSV
PDGFRA	NM_001347827.2:17 NM_001347828.2:2 NM_001347830.1:1		173490	CD140a, GAS9, PDGFR2
PDGFRB		NM_001355017.2:4	173410	CD140b, JTK12, PDGFR, PDGFR1
PDGFRL			604584	PRLTS
PDK3			300906	
PDLIM3			605889	ALP
PDPK1	NM_002613.5:1-10 NM_001261816.2:1-10 NM_031268.6:1-7		605213	PDK1
PDPR	NM_017990.5:3-17 NM_001322117.1:3-17 NM_001322118.1:2-15 NM_001322119.1:9-15		617835	PDP3
PDX1			600733	GSF, IDX-1, IPF1, IUF-1, MODY4, PDX-1, STF-1
PDXK			179020	C21orf124, C21orf97, FLJ21324, FLJ31940, MGC15873, PKH, PNK, PRED79
PDYN			131340	ADCA, PENKB, SCA23
PEAR1	NM_001353682.2:3 NM_001353683.2:4		610278	FLJ00193, JEDI, MEGF12
PECR			605843	HSA250303, SDR29C1, TERP

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PEPD			613230	
PER2			603426	KIAA0347
PET100			614770	C19orf79
PEX1			602136	ZWS, ZWS1
PEX10			602859	RNF69
PEX11B			603867	PEX11beta, PEX11β
PEX12			601758	
PEX13			601789	
PEX14			601791	
PEX16			603360	
PEX19			600279	D1S2223E, HK33, PMP1, PMPI, PXF, PXMP1
PEX2			170993	PAF-1, PMP35, PXMP3, RNF72, ZWS3
PEX26			608666	FLJ20695
PEX3			603164	
PEX5			600414	PTS1R, PXR1
PEX6			601498	PAF-2, PXAAA1
PEX7			601757	PTS2R, RD
PFKL			171860	
PFKM	NM_001354735.1:4 NM_001354736.1:4 NM_001354740.1:1 NM_001354741.1:2		610681	PFK-1, PFKX, PPP1R122
PFN1		NM_001375991.1:2	176610	
PGAM1	NM_002629.4:2-4 NM_001317079.1:2-4		172250	PGAM-B, PGAMA
PGAM2			612931	PGAM-M
PGAP1			611655	Bst1, FLJ12377, SPG67
PGAP2			615187	CWH43-N, FRAG1, MRT17, MRT21
PGAP3			611801	CAB2, MGC9753, PER1, PERLD1, PP1498
PGBD1				HUCEP-4, SCAND4, dJ874C20.4
PGC			169740	
PGK1			311800	
PGM1			171900	
PGM3			172100	AGM1, DKFZP434B187, PAGM
PGR			607311	NR3C3, PR
PGRMC1			300435	HPR6.6
PHB1			176705	PHB
PHF21A			608325	BHC80, BM-006, KIAA1696

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PHF6			300414	BFLS, BORJ, CENP-31, KIAA1823, MGC14797
PHF8			300560	JHDM1F, KDM7B, KIAA1111, ZNF422
PHGDH			606879	PDG, PGDH, SERA
PHIP	NM_017934.7:3		612870	BRWD2, DCAF14, FLJ20705, WDR11, ndrp
PHKA1			311870	PHKA
PHKA2			300798	PHK, PYK
PHKB			172490	
PHKG1			172470	PHKG
PHKG2			172471	
PHYH			602026	PAHX, PHYH1, RD
PHYKPL			614683	AGXT2L2, MGC15875
PI4KA	NM_058004.4:33-36, 44-55 NM_001362862.1:32-35, 43-54 NM_001362863.1:32-35, 43-54		600286	PI4K-ALPHA, PIK4CA, pi4K230
PICALM			603025	CALM, CLTH
PICK1			605926	MGC15204, PRKCABP, dJ1039K5
PIEZO1			611184	FAM38A, KIAA0233
PIEZO2	NM_022068.4:4 NM_001378183.1:4, 18-19, 35, 40		613629	C18orf30, C18orf58, FAM38B, FAM38B2, FLJ23144, FLJ23403, FLJ34907, HsT748, HsT771
PIF1			610953	C15orf20, FLJ22692
PIGA			311770	GPI3, PIG-A
PIGG			616918	FLJ20265, GPI7, LAS21
PIGL			605947	PIG-L
PIGM			610273	GPI-MT-I, PIG-M
PIGN			606097	MCD4, PIG-N
PIGO			614730	DKFZp434M222, FLJ00135, PIG-O
PIGQ			605754	GPI1, hGPI1
PIGT			610272	PIG-T
PIGV			610274	FLJ20477, GPI-MT-II, PIG-V
PIGW			610275	FLJ37433, Gwt1, PIG-W
PIGY			610662	MGC14156, PIG-Y
PIK3C2A			603601	PI3K-C2alpha
PIK3C2B			602838	C2-PI3K, PI3K-C2beta
PIK3C2G			609001	
PIK3C3			602609	Vps34, hVps34
PIK3CB			602925	PIK3C1
PIK3CD			602839	p110D

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PIK3R1			171833	GRB1, p85, p85-ALPHA, p85alpha
PIK3R3			606076	p55
PIK3R4			602610	VPS15, p150
PIK3R5			611317	P101-PI3K, p101
PIKFYVE			609414	FAB1, KIAA0981, MGC40423, PIP5K, PIP5K3, ZFYVE29, p235
PIN1			601052	dod
PINK1			608309	BRPK, PARK6
PIP5K1C			606102	KIAA0589, LCCS3, PIP5Kgamma
PITPNM3			608921	ACKR6, CORD5, NIR1, RDGBA3
PITX1			602149	BFT, POTX, PTX1
PITX2			601542	ARP1, Brx1, IGDS, IHG2, IRID2, Otlx2, RGS, RIEG, RIEG1, RS
PITX3			602669	ASMD
PKD1L1		NM_138295.5:8	609721	PRO19563
PKD2			173910	PC2, PKD4, Pc-2, TRPP2
PKHD1			606702	ARPKD, FCYT, FPC, TIGM1
PKLR			609712	
PKM			179050	OIP3, PK3, PKM2, THBP1
PKP2			602861	
PLA2G2A			172411	PLA2B, PLA2L
PLA2G4A			600522	PLA2G4, cPLA2-alpha
PLA2G5			601192	
PLA2G6			603604	NBIA2, PARK14, PNPLA9, iPLA2, iPLA2beta
PLA2G7			601690	LDL-PLA2, PAFAH
PLAG1			603026	ZNF912
PLAGL1			603044	LOT1, ZAC
PLAT			173370	
PLAU			191840	UPA, URK
PLB1			610179	FLJ30866, PLB
PLCB1			607120	KIAA0581, PLC-I, PLC154
PLCB4			600810	
PLCD1			602142	
PLCE1			608414	KIAA1516, NPHS3, PLCE
PLCG2			600220	
PLCZ1			608075	NYD-SP27, PLCzeta
PLD3			615698	HU-K4
PLEKHG2		NM_001351693.2:20	611893	ARHGEF42, CLG, FLJ00018

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PLEKHG4			609526	ARHGEF44, DKFZP434I216, SCA4
PLEKHG5			611101	GEF720, KIAA0720, Syx, Tech
PLEKHM2			609613	KIAA0842
PLIN1			170290	PLIN
PLK4			605031	STK18, Sak
PLN			172405	CMD1P, PLB
PLOD1			153454	LH1, LLH, PLOD
PLOD2			601865	LH2, TLH
PLP1			300401	GPM6C, PLP, SPG2
PLPBP	NM_001349349.1:5	NM_001349346.2:6 NM_001349349.1:1	604436	PROSC
PLS3			300131	T-plastin
PLVAP			607647	FELS, PV-1, PV1, gp68
PLXND1			604282	KIAA0620
PML			102578	MYL, RNF71, TRIM19
PMM2	NM_000303.3: c.-167G>T		601785	CDG1, CDG1a, CDGS, PMI, PMI1
PMP2			170715	FABP8, M-FABP, MP2
PMP22			601097	CMT1A, GAS3, HMSNIA, HNPP, Sp110
PMPCA			613036	Alpha-MPP, CLA1, INPP5E, KIAA0123, MAS2, SCAR2
PMS1	NM_001321051.1:5		600258	MLH2, PMSL1
PMS2	NM_000535.7:7, 11-15 NM_001322003.2:7, 11-15 NM_001322004.2:6, 10-14 NM_001322005.2:7, 11-15 NM_001322006.2:7, 10-14 NM_001322007.1:6, 10-14 NM_001322008.2:5, 9-13 NM_001322009.2:7, 11-15 NM_001322010.2:6, 9-13 NM_001322011.2:11-15 NM_001322012.2:11-15 NM_001322013.2:6, 10-14 NM_001322014.2:7, 11-15 NM_001322015.2:7, 11-15		600259	HNPCC4, H_DJ0042M02.9, MLH4, PMS-2, PMSL2
PMVK			607622	HUMPMKI, PMK, PMKA
PNKD			609023	BRP17, DKFZp564N1362, DYT8, FKSG19, FPD1, KIAA1184, KIPP1184, MGC31943, MR-1, MR-1S, PDC, PKND1, TAHCCP2
PNKP			605610	PNK
PNLIP			246600	PL
PNMT			171190	PENT

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PNP			164050	NP, PUNP
PNPLA1	NM_001374623.1:9		612121	FLJ38755, dJ50J22.1
PNPLA3			609567	ADPN, C22orf20, FLJ22012, adiponutrin, dJ796117.1, iPLA2epsilon
PNPLA4			300102	DXS1283E, GS2, iPLA2eta
PNPLA6			603197	NTE, SPG39, iPLA2delta, sws
PNPLA8			612123	iPLA2-2, iPLA2G, iPLA2gamma
PNPO			603287	PDXPO
PNPT1			610316	DFNB70, OLD35, PNPase, old-35
POC1A			614783	DKFZP434C245, WDR51A
POC1B			614784	FLJ14923, TUWD12, WDR51B
POC5			617880	C5orf37, FLJ35779, MGC120442, MGC120443, MGC120444, hPOC5
POF1B			300603	FLJ22792, POF
POFUT1			607491	FUT12, KIAA0180, O-FUT, O-Fuc-T
POGLUT1			615618	9630046K23Rik, C3orf9, KDELCL1, KTELC1, MDS010, MDSRP, MGC32995, Rumi, hCLP46
POGZ			614787	KIAA0461, ZNF280E, ZNF635
POLA1			312040	NSX, POLA, p180
POLD1			174761	CDC2, POLD
POLD3			611415	KIAA0039, P66, P68, PPP1R128
POLE			174762	POLE1
POLE2			602670	DPE2
POLG			174763	POLG1, POLGA
POLH			603968	RAD30A, XP-V
POLK	NM_001387111.3:6 NM_001395894.1:8	NM_001395897.1:6	605650	DINB1, DINP, POLQ
POLR3A			614258	C160, RPC1, RPC155, hRPC155
POLR3B			614366	C128, FLJ10388, RPC2
POMC			176830	ACTH, CLIP, LPH, MSH, NPP, POC
POMP			613386	C13orf12, HSPC014, UMP1
PON1			168820	ESA, PON
PON2			602447	
PON3			602720	

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
POP1			602486	
POR	NM_001382655.1:3		124015	CYPOR, FLJ26468
PORCN			300651	DHOF, MG61, PORC, PPN, por
POT1			606478	DKFZp586D211, hPot1
POU1F1			173110	GHF-1, PIT-1, PIT1, POU1F1a
PPA2			609988	FLJ20459
PPARA			170998	NR1C1, PPAR, hPPAR
PPARG		NM_001354668.2:5 NM_001354670.2:6	601487	NR1C3, PPARG1, PPARG2, PPARgamma
PPARGC1B			608886	PERC, PGC1B, PPARAGC1β
PPIB			123841	B, CYP-S1, CYPB, OI9, PPlase, SCYLP
PPM1B			603770	PP2CB, PP2CBETA, PPC2BETAX
PPM1D			605100	PP2C-DELTA, Wip1
PPM1K			611065	BDP, DKFZp761G058, PP2Ckappa, PP2Cm, hPTMP
PPOX			600923	PPO, VP
PPP1CB			600590	MP, PP-1B, PP1B, PP1beta, PP1c, PPP1beta
PPP1R15B			613257	FLJ14744
PPP1R17			604088	C7orf16, GSBS
PPP1R3A			600917	GM, PPP1R3
PPP1R3C			602999	PPP1R5, PTG
PPP2R1A			605983	PP2A-Aalpha, PP2AA, PR65A
PPP2R1B			603113	PP2A-Abeta, PR65B
PPP2R2B	NM_181677.2:3		604325	B55beta, PR52B, PR55-BETA, SCA12
PPP2R5B			601644	B56B, B56beta, FLJ35411, PR61B
PPP2R5C	NM_001352914.2:1		601645	B56G, B56gamma, PR61G
PPP2R5D			601646	B56D, B56delta
PPT1			600722	CLN1, INCL, PPT
PPT2			603298	
PQBP1			300463	MRX2, MRX55, MRXS3, MRXS8, RENS1, SHS
PRCC			179755	RCCP1
PRDM1			603423	BLIMP1, PRDI-BF1
PRDM12	NM_021619.3:5		616458	PFM9
PRDM13			616741	PFM10
PRDM16			605557	KIAA1675, KMT8F, MEL1, MGC166915, PFM13

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PRDM5		NM_001379104.1:10	614161	PFM2
PRDM6			616982	KMT8C, PRISM
PRDM8			616639	KMT8D
PRDM9	NM_020227.4:11 NM_001310214.2:11 NM_001376900.1:11		609760	KMT8B, MSBP3, Meisetz, PFM6, ZNF899
PRF1			170280	HPLH2, P1, PFP
PRICKLE1			608500	EPM1B, FLJ31937, RILP
PRICKLE2			608501	DKFZp686D143
PRICKLE3			300111	LMO6
PRIMPOL			615421	CCDC111, FLJ33167
PRKAA1	NM_001355028.2:2 NM_001355034.1:6		602739	AMPKa1
PRKAA2			600497	AMPK, AMPKa2, PRKAA
PRKAB1			602740	
PRKAB2			602741	
PRKACA			601639	PKACa
PRKACG			176893	PKACg
PRKAG1			602742	
PRKAG2			602743	AAKG, AAKG2, CMH6, H91620p, WPWS
PRKAR1A			188830	CNC1, PRKAR1, TSE1
PRKCA			176960	PKCA, PKCa
PRKCB			176970	PKCB, PKCβ, PRKCB1, PRKCB2
PRKCD	NM_001354676.2:1 NM_001354678.2:1		176977	
PRKCG			176980	MGC57564, PKCC, PKCG, PKCγ, SCA14
PRKCQ			600448	
PRKCSH			177060	G19P1, GIIB, PCLD, PLD1, VASAP-60
PRKDC			600899	DNA-PKC, DNA-PKcs, DNAPK, DNAPKc, DNPK1, HYRC, HYRC1, XRCC7, p350, p460
PRKG1			176894	PGK, PKG, PKG1, PRKG1B, PRKGR1B
PRKN			602544	AR-JP, PARK2, PDJ, parkin
PRKRA			603424	DYT16, HSD14, PACT, RAX
PRLR			176761	
PRM2			182890	CT94.2
PRMT7	NM_001351143.2:20	NM_001351144.2:16	610087	FLJ10640, KIAA1933
PRMT9			616125	FLJ46629, PRMT10
PRND			604263	DOPPEL, DPL, PrPLP, dJ1068H6.4

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PRNP			176640	AltPrP, CD230, CJD, GSS, PRIP, PRP
PROC		NM_001375602.1:1-2 NM_001375603.1:1, 5 NM_001375604.1:1 NM_001375605.1:5 NM_001375606.1:1, 4 NM_001375607.1:1-2, 5 NM_001375609.1:1	612283	
PROCR			600646	CCD41, CD201, EPCR
PRODH2			616377	HSPOX1
PROK2			607002	BV8, KAL4, MIT1, PK2
PROKR2			607123	GPR73L1, GPR73b, GPRg2, KAL3, PKR2, dJ680N4.3
PROZ			176895	PZ
PRPF4			607795	HPRP4, HPRP4P, PRP4, Prp4p, SNRNP60
PRPF6			613979	ANT-1, C20orf14, Prp6, RP60, SNRNP102, TOM, U5-102K, bB152015.1, hPrp6
PRPF8			607300	PRPC8, Prp8, RP13, SNRNP220, hPrp8
PRPH			170710	NEF4, PRPH1
PRPS1			311850	CMTX5, DFN2, DFNX1, PPRibP, PRS-I
PRRT2			614386	DKFZp547J199, DSPB3, DYT10, EKD1, FICCA, FLJ25513, ICCA, IFITMD1, PKC
PRRX1			167420	PHOX1, PMX1
PRSS1 (NM_002769)			276000	TRY1
PRSS12			606709	BSSP-3, MRT1
PRSS56			613858	
PRUNE1			617413	DRES-17, H-PRUNE, HTCD37, PRUNE
PRX			605725	KIAA1620
PSAP			176801	GLBA, SAP1, SAP2
PSEN1			104311	AD3, FAD, PS-1, PS1, PSNL1, S182
PSEN2			600759	AD3L, AD4, E5-1, PS-2, PS2, STM2
PSENE1			607632	PEN2
PSMA3			176843	HC8
PSMB4			602177	HN3, PROS26
PSMB8			177046	D6S216E, LMP7, PSMB5i, RING10, beta5i

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PSMB9			177045	LMP2, PSMB6i, RING12, beta1i
PSMC3IP			608665	GT198, HUMGT198A, Hop2, TBPIP
PSMD1			617842	P112, Rpn2, S1
PSPN			602921	PSP
PSTPIP1			606347	CD2BP1, CD2BP1L, CD2BP1S, H-PIP, PAPAS, PSTPIP
PTCH1			601309	BCNS, NBCCS, PTCH
PTCH2			603673	
PTCHD1			300828	FLJ30296
PTDSS1			612792	KIAA0024, PSS1, PSSA
PTEN	NM_000314.8:9 NM_001304717.5:10 NM_001304718.2:9		601728	BZS, MHAM, MMAC1, PTEN1, TEP1
PTF1A			607194	PTF1-p48, bHLHa29, p48
PTGFR			600563	FP
PTGIS			601699	CYP8A1, PGIS
PTGS1			176805	COX1, PGHS-1, PTGHS
PTGS2			600262	COX2
PTH			168450	PTH1
PTH1R			168468	PTHR, PTHR1
PTHLH			168470	HHM, PLP, PTHR, PTHRP
PTPN11			176876	BPTP3, NS1, PTP2C, SH-PTP2, SHP-2, SHP2
PTPN12			600079	PTP-PEST, PTPG1
PTPN13			600267	PTP-BAS, PTP-BL, PTP1E, PTPL1
PTPN14			603155	PEZ, PTPD2
PTPN21			603271	PTPD1, PTPRL10
PTPN22			600716	Lyp, Lyp1, Lyp2, PTPN8
PTPN23			606584	DKFZP564F0923, HD-PTP, KIAA1471
PTPRC			151460	CD45, GP180, LCA, T200
PTPRD			601598	HPTP, PTPD
PTPRF			179590	LAR
PTPRJ			600925	CD148, DEP1, HPTPeta
PTPRO			600579	GLEPP1, NPHS6, PTP-U2, PTP-oc, PTPU2
PTPRT	NM_001394024.1:22	NM_001394026.1:27	608712	KIAA0283, RPTPrho
PTRH2			608625	BIT1, CFAP37, CGI-147, PTH2
PTS			612719	PTPS
PTX3			602492	TNFAIP5, TSG-14

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
PUF60	NM_001362895.2:2 NM_001362896.2:2 NM_001362897.2:2		604819	FIR, RoBPI, SIAHBP1
PURA			600473	PUR-ALPHA, PUR1, PURALPHA
PUS1			608109	MLASA1
PUS3			616283	DEG1, FKSG32
PXDNL			615904	FLJ25471, PMR1
PYCR1			179035	P5C
PYCR2			616406	P5CR2
PYGL			613741	GSD6
PYGM			608455	GSD5
PYGO2			606903	
PYY			600781	PYY1
QARS1			603727	QARS
QDPR			612676	DHPR, PKU2, SDR33C1
QRSL1			617209	DKFZP564C1278, FLJ10989, FLJ12189, FLJ13447, GATA, GatA
RAB10			612672	
RAB18			602207	
RAB27A			603868	GS2, HsT18676, RAB27, RAM
RAB28			612994	
RAB33B			605950	DKFZP434G099
RAB39B			300774	MRX72, WSN
RAB3A			179490	
RAB3GAP1			602536	KIAA0066, RAB3GAP, RAB3GAP130, WARBM1
RAB3GAP2			609275	DKFZP434D245, KIAA0839, RAB3-GAP150, SPG69
RAB7A			602298	CMT2B, RAB7
RAC1			602048	Rac-1, TC-25, p21-Rac1
RAC2			602049	EN-7
RAD18			605256	RNF73
RAD21			606462	KIAA0078, SCC1, hHR21
RAD50			604040	RAD50-2, hRad50
RAD51	NM_001164269.2:4 NM_133487.4:4		179617	BRCC5, FANCR, HsRad51, HsT16930, RAD51A, RECA
RAD51B			602948	R51H2, RAD51L1, REC2, hREC2
RAD51C			602774	FANCO, RAD51L2
RAD51D			602954	HsTRAD, R51H3, RAD51L3, Trad
RAD54B			604289	RDH54

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
RAD54L			603615	RAD54A, hHR54, hRAD54
RAF1	NM_001354689.3:8 NM_001354694.3:7		164760	CRAF, Raf-1, c-Raf
RAG1			179615	MGC43321, RNF74
RAG2			179616	
RAI1			607642	DKFZP434A139, KIAA1820, MGC12824, SMCR, SMS
RALGDS			601619	RGDS, RGF, RaLGEF
RANGAP1			602362	Fug1, KIAA1835, SD
RANGRF			607954	HSPC165, HSPC236, MOG1, RANGNRF
RAP1A			179520	KREV-1, SMGP21
RAP1B			179530	DKFZp586H0723, K-REV, RAL1B
RAP1GDS1			179502	SmgGDS
RARB			180220	HAP, NR1B2, RAR-beta, RARbeta, RRB2
RARRES1			605090	LXNL, TIG1
RARS1			107820	DALRD1, RARS
RASA1 (NM_002890)			139150	CM-AVM, GAP, RASA, p120, p120GAP, p120RASGAP
RASA2			601589	GAP1M
RASA3			605182	GAP1IP4BP, GAPIII
RASAL1			604118	RASAL
RASAL2			606136	nGAP
RASAL3	NM_001400381.1:12	NM_001400377.1:12	616561	FLJ21438
RASGEF1A			614531	CG4853, FLJ37817
RASGEF1B			614532	FLJ31695, GPIG4
RASGRF1			606600	CDC25, CDC25L, GNRP, GRF1, GRF55, H-GRF55, PP13187
RASGRF2			606614	GRF2, Ras-GRF2
RASGRP1			603962	CalDAG-GEFII, RASGRP
RASGRP2			605577	CALDAG-GEFI
RASGRP3			609531	CalDAG-GEFIII, GRP3, KIAA0846
RASGRP4			607320	
RAX			601881	RAX1, RX
RAX2			610362	ARMD6, CORD11, MGC15631, RAXL1
RB1	NM_000321:22		614041	OSRC, PPP1R130, RB
RB1CC1			606837	ATG17, Cc1, DRAGOU14, FIP200, KIAA0203, PPP1R131
RBBP6			600938	P2P-R, PACT, SNAMA

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
RBBP8			604124	COM1, CtlP, RIM, SCKL2
RBCK1			610924	C20orf18, HOIL1, RBCK2, RNF54, UBCE7IP3, XAP4, ZRANB4
RBFOX1			605104	A2BP1, FOX-1, HRNBP1
RBFOX2	NM_001349982.2:1, 12 NM_001349983.2:11 NM_001349989.2:1 NM_001349990.2:1 NM_001349991.2:1, 12 NM_001349992.2:1 NM_001349994.2:1 NM_001349995.2:1 NM_001349996.2:1 NM_001349998.2:11		612149	FOX-2, HNRBP2, HRNBP2, RBM9
RBL1			116957	PRB1, cp107, p107
RBM10			300080	DXS8237E, GPATC9, GPATCH9, KIAA0122, S1-1, ZRANB5
RBM20			613171	
RBM28			612074	FLJ10377, NOP4
RBM7			612413	
RBMX			300199	HNRNPG, RNMX, hnRNP-G
RBP1			180260	CRABP-I, CRBP, CRBP-I, CRBP1, CRBPI, RBPC, hCRBP1
RBP3			180290	D10S64, D10S65, D10S66, RP66
RBP4			180250	
RBPJ			147183	CBF1, IGKJRB, IGKJRB1, KBF2, RBP-J, RBPJK, RBPSUH, SUH
RBSN			609511	ZFYVE20
RCBTB1	NM_001352505.2:10		607867	CLLD7, CLLL7, FLJ10716
RCOR1			607675	COREST, KIAA0071, RCOR
RD3			180040	C1orf36, LCA12
RDH11			607849	ARSDR1, MDT1, SDR7C1
RDH5			601617	HSD17B9, RDH1, SDR9C5
RECQL	NM_002907.4:14-15 NM_032941.2:15-16		600537	RecQ1, RecQL1
RECQL5			603781	FLJ90603, RecQ5
REEP1	NM_001371279.1:7-8		609139	C2orf23, FLJ13110, SPG31, Yip2a
REEP2			609347	C5orf19, SGC32445, SPG72, Yip2d
REL			164910	HIVEN86A, I-Rel, c-Rel
RELA			164014	NFKB3, p65
RELN			600514	PRO1598, RL

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
REN			179820	
REPS1			614825	
RERE			605226	ARG, ARP, ATN1L, ATN2, DNB1, KIAA0458
REST			600571	DFNA27, NRSF, XBR
RET (NM_020975)			164761	CDHF12, CDHR16, HSCR1, MEN2A, MEN2B, MTC1, PTC, RET51
RETREG1			613114	FAM134B, FLJ20152, JK1
REV3L			602776	POLZ, REV3
RFC1			102579	A1, MHCBBF, PO-GA, RFC140
RFT1			611908	CDG1N
RFX5			601863	
RFX6			612659	MGC33442, RFXDC1, dJ955L16.1
RFXANK	NM_001370237.1:9 NM_001370238.1:9		603200	ANKRA1, BLS, F14150_1, MGC138628, RFX-B
RFXAP			601861	
RGS2			600861	G0S8
RGS4			602516	SCZD9
RGS6	NM_001370270.1:18 NM_001370271.1:18 NM_001370272.1:18 NM_001370273.1:18 NM_001370274.1:18 NM_001370275.1:18 NM_001370276.1:18 NM_001370277.1:18-19 NM_001370278.1:18 NM_001370279.1:18 NM_001370280.1:17 NM_001370281.1:18 NM_001370282.1:18 NM_001370283.1:17 NM_001370286.1:16	NM_001370270.1:19 NM_001370271.1:19 NM_001370272.1:19 NM_001370273.1:19 NM_001370274.1:19 NM_001370275.1:19-20 NM_001370276.1:19-20 NM_001370278.1:19 NM_001370279.1:19 NM_001370280.1:18 NM_001370283.1:18 NM_001370286.1:17	603894	
RGS7			602517	
RGS9			604067	MGC111763, MGC26458, PERRS, RGS9L
RGS9BP			607814	FLJ45744, PERRS, R9AP
RHAG			180297	CD241, RH50A, SLC42A1
RHBDF2			614404	FLJ22341, RHBDL5, RHBDL6, TOC, TOCG, iRhom2
RHEB			601293	RHEB2
RHNO1			614085	C12orf32, HKMT1188, MGC13204, RHINO
RHOH			602037	ARHH, TTF

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
RIC3			610509	AYST720, FLJ11608, PRO1385
RICTOR			609022	AVO3, KIAA1999, MGC39830, PIA
RIGI			609631	DDX58, DKFZp434J1111, FLJ13599, RIG-1, RIG-I, RIG1
RILP			607848	FLJ31193
RIMS1	NM_001350414.2:17 NM_001350416.2:18 NM_001350421.2:2 NM_001350424.2:2 NM_001350425.2:17 NM_001350428.2:2 NM_001350430.2:2 NM_001350437.2:2 NM_001350450.2:2 NM_001350452.2:17-18 NM_001350459.2:2 NM_001350460.2:16 NM_001350462.2:2 NM_001350466.2:17 NM_001350471.2:2	NM_001350411.1:4 NM_001350412.1:3 NM_001350413.1:4	606629	CORD7, KIAA0340, RAB3IP2, RIM, RIM1
RINT1			610089	FLJ11785, RINT-1
RIPK4			605706	ANKK2, ANKRD3, DIK, PKK, RIP4
RIPPLY1			300575	
RIPPLY2		NM_001400899.1:1	609891	C6orf159, dJ237115.1
RIT1			609591	MGC125864, MGC125865, RIBB, RIT, ROC1
RIT2			609592	RIBA, RIN
RMND1			614917	C6orf96, FLJ20627, RMD1, bA351K16.3
RMRP			157660	CHH, NME1, RMRPR, RRP2
RNASEH1			604123	
RNASEH2A			606034	AGS4, RNASEHI, RNHIA, RNHL
RNASEH2B			610326	AGS2, DLEU8, FLJ11712
RNASEH2C			610330	AGS3, AYP1
RNASEL			180435	PRCA1, RNS4
RNASET2			612944	FLJ10907, RNASE6PL, bA514012.3
RNF113A			300951	Cwc24, RNF113, ZNF183
RNF125			610432	FLJ20456
RNF139			603046	HRCAT1, RCA1, TRC8
RNF168			612688	FLJ35794
RNF170			614649	ADSA, DKFZP564A022, SNAX1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
RNF186			617163	FLJ20225
RNF19A			607119	DKFZp566B1346, RNF19, dorfin
RNF20			607699	BRE1, BRE1A, FLJ11189, FLJ20382, KAIA2779, hBRE1
RNF212	NM_001366918.1:10-11 NM_001366919.1:10-12		612041	FLJ38841, LOC285498
RNF213			613768	ALO17, C17orf27, KIAA1554, KIAA1618, MYMY2, NET57
RNF31			612487	FLJ10111, FLJ23501, HOIP, Paul, ZIBRA
RNF43			612482	DKFZp781H0392, FLJ20315, URCC
RNF6			604242	DKFZp686P0776
RNLS			609360	C10orf59, FLJ11218, renalase
RNPC3			618016	FLJ20008, KIAA1839, RBM40, SNRNP65
RNU4ATAC			601428	RNU4ATAC1, U4atac
ROBO1			602430	DUTT1, FLJ21882, SAX3
ROBO2	NM_001378190.1:25 NM_001378191.1:21, 26 NM_001378192.1:1, 26 NM_001378193.1:25 NM_001378194.1:1, 22 NM_001378195.1:21 NM_001378196.1:21 NM_001378197.1:21 NM_001378198.1:1 NM_001378199.1:1 NM_001394212.1:1, 21, 26 NM_001394213.1:1, 22 NM_001394214.1:1 NM_001395656.1:26 NM_001395657.1:1, 21		602431	KIAA1568
ROGDI			614574	FLJ22386, RAV2, ROGDI
ROR2			602337	BDB, BDB1, NTRKR2
RORB	NM_001365023.1:1		601972	NR1F2, ROR-BETA, RZRB
RORC			602943	NR1F3, RORG, RZRG, TOR
RP9	NM_203288.2:6		607331	PAP-1
RPGRIP1L		NM_015272.5:23 NM_001330538.2:22	610937	CORS3, FTM, JBTS7, KIAA1005, MKS5, NPHP8, PPP1R134
RPIA			180430	
RPL10			312173	DXS648, DXS648E, FLJ23544, L10, NOV, QM, uL16

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
RPL11			604175	L11, uL5
RPL15			604174	EC45, L15, RPL10, RPLY10, RPYL10
RPL19			180466	DKFZp779D216, FLJ27452, L19, MGC71997
RPL23			603662	L23, rpL17
RPL26			603704	L26
RPL27			607526	L27
RPL31			617415	L31
RPL35A			180468	GIG33, L35A, eL33
RPL36			617893	DKFZp566B023, L36
RPL5			603634	L5, PPP1R135, uL18
RPS10			603632	MGC88819, S10
RPS14			130620	EMTB, S14
RPS19			603474	DBA, LOH19CR1, S19, eS19
RPS20			603682	S20, uS10
RPS24			602412	S24, eS24
RPS26			603701	S26, eS26
RPS27			603702	MPS-1, MPS1, S27
RPS27A			191343	S27A, UBCEP80, Uba80
RPS28			603685	S28, eS28
RPS29	NM_001351375.1:1		603633	S29, uS14
RPS6KA1			601684	HU-1, MAPKAPK1, RSK1, p90Rsk
RPS6KA2			601685	HU-2, RSK3
RPS6KA3			300075	CLS, HU-3, MRX19, RSK2
RPS7			603658	S7, eS7
RPTOR			607130	KIAA1303, KOG1, Mip1, raptor
RRAGA			612194	FIP-1, RAGA
RRAGC			608267	FLJ13311, GTR2
RRAS2	NM_012250.6:6 NM_001102669.2:6 NM_001177314.1:6 NM_001177315.1:6		600098	TC21
RREB1			602209	HNT
RRM1			180410	
RRP8			615818	KIAA0409, NML
RS1			300839	RS, XLRS1
RSPH1			609314	CILD24, FLJ32753, RSP44, RSPH10A, TSGA2
RSPH3			615876	RSHL2, RSP3, dJ111C20.1
RSPH4A			612647	CILD11, FLJ37974, RSHL3, RSPH6B, dJ41217.1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
RSPH9			612648	C6orf206, CILD12, FLJ30845, MRPS18AL1
RSP01			609595	FLJ40906, RSPONDIN
RSP04			610573	C20orf182, dJ824F16.3
RSPRY1			616585	KIAA1972
RTEL1			608833	C20orf41, DKFZP434C013, KIAA1088, NHL, RTEL, bK3184A7.3
RTN2			603183	NSP2, NSPL1, SPG12
RTN4IP1			610502	NIMP
RTTN			610436	DKFZP434G145
RUBCN			613516	KIAA0226, rubicon, rundataxin
RUNX1			151385	AML1, AMLCR1, CBFA2, PEBP2A2
RUNX2			600211	AML3, CBFA1, CCD, CCD1, PEBP2A1, PEBP2aA1
RUSC2			611053	KIAA0375
RUVBL2			604788	ECP51, INO80J, RVB2, Reptin52, Rvb2, TIH2, TIP48, TIP49b
RYR1	NM_000540.3:91 NM_001042723.2:90		180901	CCO, MHS, MHS1, PPP1R137, RYR
RYR2			180902	ARVC2, ARVD2, VTSIP
S100A8			123885	60B8AG, CAGA, CFAG, CGLA, MRP-8, MRP8, P8, S100-A8
S1PR3			601965	C9orf108, C9orf47, EDG-3, EDG3, FLJ37523, bA791021.3
SAA4			104752	C-SAA, CSAA
SACS			604490	ARSACS, DKFZp686B15167, DNAJC29, KIAA0730, PPP1R138, SPAX6
SALL1			602218	Hsal1, TBS, ZNF794
SALL2			602219	Hsal2, KIAA0360, ZNF795
SALL4			607343	ZNF797, dJ1112F19.1
SAMD11	NM_001385640.1:1 NM_001385641.1:1		616765	MGC45873
SAMD9			610456	C7orf5, FLJ20073, KIAA2004
SAMD9L			611170	C7orf6, FLJ39885, KIAA2005
SAMHD1	NM_001363733.2:16		606754	AGS5, HDDC1, MOP-5, Mg11, SBBI88
SAR1B			607690	SARA2

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SARDH			604455	DMGDHL1, SDH
SARS2			612804	FLJ20450, SARS, SARSM, SERS, SYS, SerRSmt, mtSerRS
SART3			611684	KIAA0156, RP11-13G14, TIP110, p110
SASH1			607955	KIAA0790, SH3D6A, dJ323M4.1
SASS6			609321	DKFZp761A078, FLJ22097, SAS-6, SAS6
SATB2			608148	FLJ21474, KIAA1034
SBF1			603560	DENND7A, MTMR5
SBF2	NM_001386339.1:29		607697	CMT4B2, DENND7B, KIAA1766, MTMR13
SC5D			602286	SC5DL
SCARB1	NM_001367982.1:1	NM_001367981.1:11 NM_001367982.1:11	601040	CD36L1, CLA-1, CLA1, SR-BI, SRB1
SCARB2			602257	CD36L2, HLG85, LIMP-2, LIMPII, SR-BII
SCG5			173120	7B2, SGNE1, SgV
SCN10A			604427	Nav1.8, PN3, SNS, hPN3
SCN11A			604385	NaN, Nav1.9, SCN12A, SNS-2
SCN1A			182389	FEB3, GEFSP2, HBSCI, NAC1, Nav1.1, SCN1, SMEI
SCN1B			600235	
SCN2A			182390	HBSCI, HBSCII, Nav1.2, SCN2A1, SCN2A2
SCN3A			182391	Nav1.3
SCN5A			600163	CDCD2, CMD1E, CMPD2, HB1, HB2, HBB, HH1, ICCD, IVF, LQT3, Nav1.5, PFHB1, SSS1
SCN7A			182392	NaG, Nav2.1, Nav2.2, SCN6A
SCN8A			600702	CIAT, CerIII, MED, NaCh6, Nav1.6, PN4
SCN9A		NM_001365536.1:12	603415	ETHA, NE-NA, NENA, Nav1.7, PN1
SCNM1			608095	MGC3180
SCNN1A			600228	ENaCalpha, SCNN1
SCNN1B			600760	ENaCbета
SCNN1G			600761	ENaCgamma, SCNEG
SCP2	NM_001007098.2:11 NM_001330587.1:12		184755	
SCRIB			607733	KIAA0147, SCRIB1, Vartul

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SCYL1			607982	GKLP, HT019, MGC78454, NKTL, NTKL, P105, TAPK, TEIF, TRAP
SDC3	NM_014654.4:1		186357	N-syndecan, SYND3
SDCCAG8	NM_001350248.1:7		613524	BBS16, CCCAP, NPHP10, NY-CO-8, SLSN7
SDHA (NM_004168)	NM_004168:14		600857	FP, SDH2, SDHF
SDHAF2			613019	C11orf79, FLJ20487, PGL2, SDH5
SDHB (NM_003000)			185470	SDH, SDH1
SDHC (NM_003001)			602413	CYB560, PGL3, cybL
SDHD (NM_003002)			602690	PGL, PGL1, cybS
SDR9C7			609769	RDHS, SDR-O
SEC13			600152	D3S1231E, SEC13L1, SEC13R, npp-20
SEC23A			610511	
SEC23B			610512	CDA-II, CDAIL, CDAN2, HEMPAS
SEC24B			607184	
SEC24D			607186	KIAA0755
SEC61A1	NM_001400328.1:1		609213	
SECISBP2			607693	SBP2
SELP			173610	CD62, CD62P, GMP140, GRMP, PADGEM, PSEL
SEM1	NM_001393898.1:3 NM_001393899.1:3 NM_001393900.1:3 NM_001393901.1:3 NM_001393902.1:3 NM_001393903.1:3 NM_001393904.1:2-3 NM_001393905.1:2		601285	C7orf76, DSS1, ECD, FLJ42280, PSMD15, SHFD1, SHFM1, SHSF1, Shfdg1
SEMA3A			603961	Hsema-I, SEMA1, SEMAD, SemD, coll-1
SEMA3C	NM_001350120.2:1	NM_001350120.2:2	602645	SEMAE, SemE
SEMA3D			609907	Sema-Z2, coll-2
SEMA3E			608166	KIAA0331, M-SemaK, SEMAH, coll-5
SEMA3F			601124	SEMAK, Sema4
SEMA5A			609297	SEMAF, semF
SEMA7A			607961	CD108, H-Sema-L, SEMAL
SEPSECS			613009	SLA, SLA-p35, SLA/LP, SecS
SERPINA1			107400	A1A, A1AT, AAT, PI, PI1, alpha-1-antitrypsin, alpha1AT
SERPINA3			107280	AACT, ACT

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SERPINA6			122500	CBG
SERPINA7			314200	TBG
SERPINB7			603357	
SERPINB8	NM_001348367.2:7		601697	CAP2, PI8
SERPINC1	NM_001386303.1:2	NM_001386302.1:4	107300	AT3, ATIII, MGC22579
SERPIND1			142360	D22S673, HC-II, HC2, HCF2, HLS2
SERPINE1	NM_001386459.1:10 NM_001386460.1:9 NM_001386461.1:8 NM_001386464.1:9	NM_001386458.1:8 NM_001386466.1:2	173360	PAI, PAI1, PLANH1
SERPINF1			172860	EPC-1, PEDF, PIG35
SERPINF2			613168	A2AP, AAP, ALPHA-2-PI, API, PLI, alpha2AP
SERPINH1			600943	CBP1, CBP2, HSP47, SERPINH2
SERPINI1			602445	PI12
SETBP1			611060	KIAA0437, SEB
SETD1A			611052	KIAA0339, KMT2F, SET1A, Set1
SETD2			612778	FLJ23184, HIF-1, HYPB, KIAA1732, KMT3A
SETD5			615743	FLJ10707, SETD5A
SETX	NM_001351528.2:26		608465	ALS4, AOA2, KIAA0625, SCAR1, STEX, Sen1
SF3B1			605590	Hsh155, PRPF10, Prp10, SAP155, SF3b155
SFRP4			606570	FRP-4, FRPHE, FRZB-2, frpHE
SFTPA1	NM_005411.5:6 NM_001093770.3:6 NM_001164644.2:6 NM_001164645.2:6 NM_001164646.2:6 NM_001164647.1:5		178630	COLEC4, SFTP1, SP-A, SP-A1
SFTPA2	NM_001098668.4:6 NM_001320813.2:6 NM_001320814.1:5		178642	COLEC5, SP-A2
SFXN4			615564	SLC56A4
SGCD			601411	CMD1L, DAGD, LGMD2F
SGCE	NM_001099401.2:10		604149	DYT11
SGO1			609168	NY-BR-85, SGOL1
SGPL1			603729	SPL
SGSH	NM_001352921.2:8 NM_001352922.2:8		605270	HSS, MPS3A, SFMD
SGSM3	NM_001350040.2:22 NM_001350041.2:22 NM_001350047.2:21	NM_001350039.2:20 NM_001350040.2:20	610440	DJ1042K10.2, RABGAP5, RUSC3, RUTBC3, RabGAP-5

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
		NM_001350042.2:20 NM_001350043.2:19		
SH2B3			605093	IDDM20, LNK
SH2D1A			300490	DSHP, EBVS, IMD5, LYP, MTCP1, SAP, XLP, XLPD
SH3BP2	NM_001145856.2:1		602104	CRBM, RES4-23
SH3GL1			601768	CNSA1, EEN, MGC111371, SH3D2B, SH3P8
SH3PXD2B			613293	FLJ20831, KIAA1295
SH3TC2			608206	CMT4C, KIAA1985
SHANK1			604999	SPANK-1, SSTRIP, synamon
SHANK2	NM_001379226.1:1		603290	CORTBP1, CTTNBP1, ProSAP1, SHANK, SPANK-3
SHBG			182205	ABP, MGC126834, MGC138391, TEBG
SHC1			600560	SHC, ShcA, p66
SHH			600725	HHG1, HLP3, HPE3, MCOPCB5, SMMCI, TPT, TPTPS
SHMT1			182144	MGC15229, MGC24556, SHMT, cSHMT
SHOC2			602775	KIAA0862, SOC-2, SOC2, SUR-8, SUR8
SHOX (NM_000451)	NM_006883:6, also known as exon 6b		312865	GCFX, PHOG, SHOXY, SS
SHOX2			602504	OG12, OG12X, SHOT
SHPK			605060	CARKL, SHK
SHROOM3			604570	APXL3, KIAA1481, SHRM, ShrmL
SHROOM4			300579	KIAA1202
SI			609845	
SIAE			610079	CSE-C, LSE, MGC87009, YSG2
SIGIRR			605478	IL-1R8, TIR8
SIGLEC1		NM_001367089.1:20	600751	CD169, FLJ00051, FLJ00055, FLJ00073, FLJ32150, SIGLEC-1, SN, dJ1009E24.1, sialoadhesin
SIGMAR1			601978	OPRS1, SR-BP1
SIK1			605705	SNF1LK, msk
SIL1			608005	BAP, MSS, ULG5
SIM1			603128	bHLHe14
SIN3A			607776	DKFZP434K2235, KIAA0700
SIPA1L1	NM_001354289.2:5		617504	E6TP1, KIAA0440, SPAR1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SIRT3		NM_001370310.1:6 NM_001370312.1:5 NM_001370321.1:6 NM_001370322.1:6 NM_001370323.1:6	604481	SIR2L3
SIX2			604994	
SIX3			603714	HPE2
SIX5			600963	DMAHP
SIX6			606326	OPTX2, Six9
SKI			164780	
SKIC2			600478	170A, DDX13, HLP, SKI2, SKI2W, SKIV2, SKIV2L, SKIV2L1
SKIC3			614589	KIAA0372, SKI3, THES, TTC37
SLBP			602422	HBP
SLC10A1			182396	NTCP, NTCP1
SLC10A2			601295	ASBT, IBAT, ISBT, NTCP2
SLC11A2			600523	DCT1, DMT-1, DMT1, FLJ37416, NRAMP2
SLC12A1	NM_001384136.1:5		600839	BSC, BSC-1, BSC1, CCC2, NKCC2
SLC12A2			600840	BSC-2, BSC2, CCC1, NKCC1, PPP1R141
SLC12A3			600968	NCC, NCCT, TSC
SLC12A5			606726	KCC2, KIAA1176, hKCC2
SLC12A6			604878	ACCPN, KCC3, KCC3A, KCC3B
SLC13A5			608305	INDY, NACT, mINDY
SLC14A1			613868	HsT1341, JK, RACH1, RACH2
SLC16A1			600682	MCT, MCT1
SLC16A12			611910	CRT2, MCT12
SLC16A2			300095	AHDS, DXS128, DXS128E, MCT7, MCT8, MRX22, XPCT
SLC17A3			611034	NPT4
SLC17A5	NM_001382631.1:2 NM_001382633.1:11		604322	AST, ISSD, NSD, SD, SIALIN, SIASD, SLD
SLC17A9			612107	C20orf59, FLJ23412, VNUT
SLC18A2			193001	SVAT, SVMT, VAT2, VMAT2
SLC18A3			600336	VACHT
SLC19A1			600424	FOLT, IFC-1, RFC, RFC1, RFT-1, hRFC
SLC19A2			603941	THTR1, TRMA, ThT1
SLC19A3	NM_001371413.1:3 NM_001371414.1:3		606152	THTR2, hTHTR2, thTr-2

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SLC1A1			133550	EAAC1, EAAT3, hEAAC1
SLC1A2			600300	EAAT2, GLT-1, GLT1, HBGT
SLC1A3			600111	EA6, EAAT1, GLAST, GLAST-1, GLAST1
SLC1A4			600229	ASCT-1, ASCT1, SATT
SLC20A2			158378	GLVR2, Glvr-2, MLVAR, PIT2, PiT-2, Ram-1
SLC22A1			602607	OCT1
SLC22A12			607096	OAT4L, RST, UAT, URAT1, hURAT1
SLC22A18			602631	BWR1A, BWSCR1A, IMPT1, ITM, ORCTL2, SLC22A1L, TSSC5
SLC22A3			604842	EMT, OCT3
SLC22A4			604190	DFNB60, MGC34546, OCTN1
SLC22A5	NM_003060.3: c.-149G>A		603377	CDSP, OCTN2, SCD
SLC24A1			603617	CSNB1D, HsT17412, KIAA0702, NCKX, NCKX1, RODX
SLC24A2			609838	NCKX2
SLC24A4			609840	NCKX4
SLC24A5			609802	JSX, NCKX5, OCA6
SLC25A1			190315	CIC, CTP, SLC20A3
SLC25A10			606794	DIC
SLC25A12			603667	AGC1, Aralar, aralar1
SLC25A13			603859	ARALAR2, CITRIN, CTLN2
SLC25A20			613698	CAC, CACT
SLC25A22			609302	EIEE3, FLJ13044, GC-1, GC1, NET44
SLC25A26	NM_001400705.1:10 NM_001400709.1:9		611037	SAMC
SLC25A32			138480	MFTC
SLC25A38			610819	FLJ20551
SLC25A40			610821	MCFP
SLC25A42			610823	MGC26694
SLC25A46			610826	
SLC26A1			610130	EDM4, SAT-1
SLC26A2			606718	DTD, DTDST
SLC26A3			126650	CLD, DRA
SLC26A8			608480	TAT1
SLC27A4			604194	ACSVL4, FATP-4, FATP4
SLC27A5			603314	ACSB, ACSVL6, FACVL3, FATP5, FLJ22987, VLACSR, VLCS-H2, VLCSH2

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SLC28A1			606207	CNT1
SLC28A3			608269	CNT3
SLC29A1			602193	ENT1
SLC29A2			602110	DER12, ENT2, HNP36
SLC29A3			612373	ENT3, FLJ11160, hENT3
SLC29A4			609149	ENT4, FLJ34923
SLC2A1			138140	CSE, DYT18, DYT9, GLUT, GLUT-1, GLUT1, HTLVR
SLC2A10			606145	GLUT-10, GLUT10
SLC2A2			138160	GLUT-2, GLUT2
SLC2A4			138190	GLUT4
SLC2A9			606142	GLUTX, Glut9, URATv1
SLC30A10	NM_001376929.1:1		611146	DKFZp547M236, ZNT10, ZNT8, ZRC1, ZnT-10
SLC30A2			609617	ZNT2
SLC30A3			602878	ZNT3
SLC31A1			603085	COPT1, CTR1, hCTR1
SLC33A1			603690	ACATN, AT-1, AT1, SPG42
SLC34A1			182309	NAPI-3, NPT2, NPTIIa, SLC11, SLC17A2
SLC34A2			604217	NAPI-3B, NAPI-IIb, NPTIIb, NaPi-2b, NaPi2b
SLC34A3			609826	FLJ38680, NPT2C, NPTIIc, NaPi-2c
SLC35A1			605634	CMP-Sia-Tr, CMPST, hCST
SLC35A2			314375	UDP-Gal-Tr, UGALT, UGAT, UGT, UGT1, UGT2, UGTL
SLC35C1			605881	FLJ11320, FUCT1
SLC35D1			610804	KIAA0260, UGTREL7
SLC35D3			612519	FRCL1
SLC36A2			608331	PAT2, TRAMD1, tramdorin
SLC37A4			602671	G6PT, G6PT1, G6PT2, G6PT3, GSD1b, GSD1c, GSD1d, SPX4
SLC38A8			615585	SNAT8
SLC39A13			608735	FLJ25785, LZT-Hs9, ZIP-13, ZIP13
SLC39A14	NM_001351657.2:3 NM_001351658.2:2 NM_001351659.2:1		608736	KIAA0062, NET34, ZIP-14, ZIP14
SLC39A4			607059	AEZ, AWMS2, ZIP-4, ZIP4
SLC39A5			608730	ZIP5
SLC39A8	NM_001135148.1:1		608732	BIGM103, ZIP-8, ZIP8
SLC40A1			604653	FPN, FPN1, HFE4, IREG1, MTP1, SLC11A3

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SLC41A1			610801	MgtE
SLC41A2	NM_001387128.1:11 NM_001387129.1:11 NM_001387130.1:11	NM_001387131.1:7 NM_001387132.1:8 NM_001387133.1:7	610802	DKFZP434K0427
SLC41A3			610803	FLJ20473
SLC45A2			606202	AIM-1, MATP, OCA4
SLC46A1			611672	HCP1, HsPCFT, MGC9564, PCFT, hPCFT
SLC47A2			609833	FLJ31196, MATE2, MATE2-K
SLC4A1			109270	AE1, CD233, DI, EMPB3, EPB3, FR, RTA1A, SW, WD, WR
SLC4A10	NM_001354440.2:26 NM_001354443.2:2, 26 NM_001354445.2:26 NM_001354446.2:25 NM_001354447.2:3 NM_001354460.2:2 NM_001354461.2:3		605556	NBCn2, NCBE
SLC4A11			610206	BTR1, CDPD1, CHED2, FECD4, NaBC1, dJ794I6.2
SLC4A4			603345	HNBC1, KNBC, NBC1, NBC2, NBCe1, SLC4A5, hhNMC, kNBC1, pNBC
SLC52A1			607883	FLJ10060, GPCR42, GPR172B, PAR2, RFVT1, hRFT1
SLC52A2			607882	D15Erd747e, FLJ11856, GPCR41, GPR172A, HuPAR-1, PAR1, RFT3, RFVT2, hRFT3
SLC52A3			613350	C20orf54, RFT2, RFVT3, bA371L19.1, hRFT2
SLC5A1			182380	D22S675, NAGT, SGLT-1, SGLT1
SLC5A2			182381	SGLT2
SLC5A5			601843	NIS
SLC5A7			608761	CHT1, ChT, hCHT
SLC6A1			137165	GABATHG, GABATR, GAT-1, GAT1, hGAT-1
SLC6A11			607952	GAT3
SLC6A12			603080	BGT-1
SLC6A13			615097	GAT2
SLC6A17			610299	NTT4
SLC6A19			608893	B0AT1
SLC6A2			163970	NAT1, NET, NET1, SLC6A5
SLC6A20		NM_001385683.1:6	605616	IMINO, SIT1, XT3, Xtrp3

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SLC6A3			126455	DAT, DAT1
SLC6A4			182138	5-HTT, HTT, OCD1, SERT1
SLC6A5			604159	GLYT2, GlyT-2, NET1
SLC6A9			601019	GLYT1, GlyT-1
SLC7A14			615720	KIAA1613, PPP1R142
SLC7A2			601872	ATRC2, CAT-2, HCAT2
SLC7A3			300443	ATRC3, CAT-3, FLJ14541
SLC7A7			603593	LPI, Y+LAT1, y+LAT-1
SLC7A9			604144	BAT1, CSNU3
SLC9A1			107310	APNH, NHE-1, NHE1, PPP1R143
SLC9A3			182307	NHE-3, NHE3
SLC9A6	NM_001379110.1:14		300231	KIAA0267, NHE-6, NHE6
SLC9A9			608396	FLJ35613, NHE9
SLC01B1			604843	LST-1, OATP-C, OATP1B1, SLC21A6
SLC01B3			605495	OATP1B3, OATP8, SLC21A8
SLC02A1			601460	MATR1, OATP2A1, PGT, SLC21A2
SLC03A1			612435	OATP-D, OATP3A1, SLC21A11
SLFN14			614958	
SLIT2			603746	SLIL3, Slit-2
SLITRK1			609678	KIAA1910, LRRC12
SLITRK5			609680	KIAA0918, LRRC11, bA364G4.2
SLMAP	NM_001377538.1:13 NM_001377539.1:13 NM_001377540.1:13 NM_001377542.1:12 NM_001377545.1:13 NM_001377555.1:13 NM_001377921.1:12 NM_001377922.1:13	NM_001377538.1:19 NM_001377928.1:6	602701	KIAA1601, SLAP
SLURP1			606119	ANUP, ARS, ArsB, LY6-MT, LY6LS, MDM
SLX4			613278	BTBD12, FANCP, KIAA1784, KIAA1987
SMAD1			601595	JV4-1, MADH1, MADR1
SMAD2			601366	JV18-1, MADH2, MADR2
SMAD3			603109	HsT17436, JV15-2, MADH3
SMAD4			600993	DPC4, MADH4
SMAD6			602931	HsT17432, MADH6, MADH7
SMAD9			603295	MADH6, MADH9, SMAD8, SMAD8/9

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SMARCA2	NM_003070.5:5 NM_001289396.1:5 NM_001289397.2:5 NM_139045.4:5		600014	BAF190, BRM, SNF2, SNF2L2, SNF2LA, SWI2, Sth1p, hBRM, hSNF2a
SMARCA4			603254	BAF190, BRG1, FLJ39786, SNF2, SNF2-BETA, SNF2L4, SNF2LB, SWI2, hSNF2b
SMARCAD1			612761	DKFZP762K2015, DKFZp762K2015, ETL1, KIAA1122
SMARCAL1			606622	HARP, HHARP
SMARCB1			601607	BAF47, INI-1, Ini1, PPP1R144, RDT, SNF5, SNF5L1, Sfh1p, Snr1, hSNFS
SMARCE1			603111	BAF57
SMC1A			300040	DXS423E, KIAA0178, SB1.8, SMC1L1, Smcb
SMC3			606062	BAM, CSPG6, HCAP, SMC3L1, bamacan
SMCHD1			614982	FSHD2, KIAA0650
SMG5			610962	EST1B, KIAA1089, LPTS-RP1, LPTS-RP1, RP11-54H19.7, SMG-5
SMG6			610963	C17orf31, EST1A, KIAA0732, SMG-6
SMG7	NM_001394144.1:4		610964	C1orf16, EST1C, KIAA0250, SGA56M, SMG-7
SMG8			613175	C17orf71, FLJ10587, FLJ23205
SMG9			613176	C19orf61, FLJ12886
SMOC1			608488	
SMOC2			607223	SMAP2
SMS			300105	MRSR, SPMSY, SRS, SpS
SNAI2			602150	SLUG, SLUGH, SLUGH1, SNAIL2
SNAP25			600322	RIC-4, RIC4, SEC9, SNAP, SNAP-25, bA416N4.2, dJ1068F16.2
SNAP29			604202	CEDNIK, SNAP-29
SNCAIP			603779	SYPH1
SNCB			602569	
SNIP1			608241	PML1
SNRNPB			182282	COD, SNRNPB1, Sm-B/B', SmB/SmB', snRNP-B
SNRPE			128260	Sm-E

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SNRPN	NM_001378251.1:8 NM_001378252.1:5 NM_001378253.1:4 NM_001378254.1:6 NM_001378255.1:4		182279	HCERN3, PWCR, RT-LI, SM-D, SMN, SNRNP-N, SNURF-SNRPN
SNX10			614780	
SNX14	NM_001350532.1:2		616105	RGS-PX2
SNX27			611541	KIAA0488, MGC20471, MY014
SOBP			613667	FLJ10159
SOCS3			604176	CIS3, Cish3, SOCS-3, SSI-3
SOCS4			616337	SOCS7
SOCS6			605118	CIS4, Cish4, HSPC060, SOCS4, SSI4, STAI4, STATI4
SOD2			147460	GC1, GC1nc1, IPOB, MnSOD
SOD3			185490	EC-SOD
SOHLH1			610224	C9orf157, NOHLH, SPATA27, TEB2, bA100C15.3, bHLHe80
SOHLH2			616066	FLJ20449, SPATA28, TEB1, bHLHe81
SON			182465	BASS1, C21orf50, DBP-5, FLJ21099, FLJ33914, KIAA1019, NREBP
SORL1			602005	C11orf32, LR11, LRP9, SorLA, SorLA-1, gp250
SORT1			602458	Gp95, NT3
SOS1	NM_001382394.1:1		182530	GF1, GINGF, HGF
SOS2			601247	
SOST			605740	DAND6, VBCH
SOX11			600898	
SOX17			610928	
SOX18		NM_018419.3:1	601618	
SOX2			184429	
SOX3			313430	PHP
SOX5			604975	L-SOX5, MGC35153
SOX6			607257	
SOX9		NM_000346:3	608160	CMD1, CMPD1, SRA1
SP110	NM_001378442.1:18 NM_001378443.1:17		604457	IFI41, IFI75
SP7			606633	OSX, osterix
SPACA6			618945	LET7EH, LINC00085, NCRNA00085, SPACA6P
SPAG1		NM_172218.3:11 NM_001374321.1:11 NM_003114.5:11	603395	CILD28, CT140, DNAAF13, FLJ32920, HSD-3.8, SP75, TPIS

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SPARC			182120	BM-40, ON, ONT
SPART			607111	KIAA0610, SPG20, TAHCCP1
SPAST			604277	ADPSP, FSP2, KIAA1083, SPG4
SPATA16			609856	NYD-SP12
SPATA5			613940	AFG2, SPAF
SPDL1			616401	CCDC99, FLJ20364, hSpindly
SPECC1L			614140	CYTSA, KIAA0376
SPG11			610844	ALS5, FLJ21439, KIAA1840
SPG21			608181	ABHD21, ACP33, BM-019, GLO10, MAST
SPINK1 (NM_003122)			167790	PCTT, PSTI, Spink3, TATI
SPINK5			605010	DKFZp686K19184, FLJ21544, FLJ97536, FLJ97596, FLJ99794, LEKTI, LETKI, NETS, NS, VAKTI
SPINT2			605124	HAI-2, HAI2, Kop
SPOCK1			602264	SPOCK, TIC1, testican-1
SPOP			602650	BTBD32, TEF2
SPP1			166490	BNSP, BSPI, ETA-1, OPN, Inc-PKD2-2-3
SPP2			602637	SPP24
SPR			182125	SDR38C1
SPRED1 (NM_152594)			609291	FLJ33903, PPP1R147
SPRED2			609292	FLJ21897, FLJ31917, Spred-2
SPRED3			609293	
SPRNT			616086	C1orf124, DKFZP547N043, DVC1, Spartan
SPRY2			602466	hSPRY2
SPRY4			607984	
SPTA1			182860	EL2
SPTAN1	NM_001363759.2:52 NM_001375310.1:50 NM_001375312.2:2 NM_001375318.1:2, 53		182810	
SPTB			182870	
SPTBN2			604985	SCA5
SPTBN5			605916	BSPECV, HUBSPECV, HUSPECV
SPTLC1	NM_006415.4:3 NM_001281303.2:3 NM_001368272.1:6 NM_178324.3:3		605712	HSAN1, HSN1, LCB1, SPTI, hLCB1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SPTLC2			605713	KIAA0526, LCB2, LCB2A, hLCB2a
SPTLC3			611120	C20orf38, FLJ11112, LCB2B, SPTLC2L, hLCB2b
SRA1			603819	SRA, STRAA1
SRC			190090	ASV, SRC1, c-src
SRCAP			611421	DOMO1, KIAA0309, SWR1
SRD5A2			607306	
SRD5A3			611715	FLJ13352, SRD5A2L, SRD5A2L1
SREBF1	NM_001388387.1:8	NM_001388385.1:14 NM_001388386.1:18 NM_001388388.1:18	184756	SREBP-1c, SREBP1, SREBP1a, bHLHd1
SREBF2			600481	SREBP2, bHLHd2
SRGAP3			606525	ARHGAP14, KIAA0411, MEGAP, SRGAP2, WRP
SRI			182520	
SRP68			604858	
SRP72			602122	
SRPK2	NM_001350739.1:14 NM_001350740.1:1 NM_001350741.1:16 NM_001350742.1:1 NM_001350743.1:17 NM_001350744.1:15 NM_001350746.1:1	NM_001350742.1:3 NM_001350746.1:3	602980	SFRSK2
SRPK3			301002	MSSK1, STK23
SRPX2			300642	SRPUL
SRRM2			606032	Cwc21, KIAA0324, SRL300, SRm300
SS18L1			606472	CREST, KIAA0693, SMARCL2
SSH1			606778	KIAA1298, SSH1L
SSR4			300090	TRAPD
SSTR5			182455	
SSX1			312820	CT5.1
ST14			606797	CAP3, HAI, MT-SP1, PRSS14, SNC19, TMPRSS14
ST3GAL3	NM_001350619.2:12 NM_001350620.2:12 NM_001350621.2:6, 13		606494	MRT12, SIAT6
ST3GAL5			604402	SIAT9, SIATGM3S, ST3GalIV
ST6GALNAC5			610134	MGC3184, SIAT7E, ST6GalINAcV
ST7	NM_001369599.1:1 NM_001369600.1:1 NM_001369602.1:1		600833	ETS7q, FAM4A, FAM4A1, HELG, RAY1, SEN4, TSG7

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
	NM_001369603.1:1 NM_001369606.1:2 NM_001369607.1:2			
STAG1			604358	SA-1, SA1, SCC3A
STAMPB	NM_001353969.1:10 NM_001353970.1:11 NM_001353976.1:10		606247	AMSH
STAP1			604298	BRDG1, STAP-1
STAR			600617	STARD1
STAT1	NM_001384881.1:3 NM_001384884.1:3	NM_001384886.1:23 NM_001384891.1:4	600555	ISGF-3, STAT91
STAT2			600556	STAT113
STAT3			102582	APRF
STAT4			600558	
STAT5B	NM_012448.4:6-8		604260	
STEAP3			609671	STMP3, TSAP6, dudlin-2
STH			607067	MAPTIT
STIL			181590	MCPH7, SIL
STIM1	NM_001382567.1:11 NM_001382572.1:8 NM_001382574.1:8	NM_001382568.1:10	605921	D11S4896E, GOK
STING1			612374	ERIS, FLJ38577, MITA, MPYS, NET23, STING, TMEM173
STK11			602216	LKB1, PJS
STK4	NM_001352385.2:11		604965	KRS2, MST1, YSK3
STN1			613128	FLJ22559, OBFC1, bA541N10.2
STOX1	NM_152709.5:1 NM_001130159.2:1 NM_001130160.2:1 NM_001130161.3:1		609397	C10orf24, FLJ25162
STRA6			610745	FLJ12541
STRADA			608626	LYK5, NY-BR-96, STRAD, Stlk
STS			300747	ARSC, ARSC1
STT3A			601134	ITM1, MGC9042, STT3-A, TMC
STT3B			608605	FLJ90106, SIMP, STT3-B
STUB1			607207	CHIP, HSPABP2, NY-CO-7, SDCCAG7, UBOX1
STX11			605014	
STX16			603666	SYN-16, SYN16, hsyn16
STX1A			186590	HPC-1, STX1, p35-1
STX1B			601485	STX1B1, STX1B2
STX3			600876	STX3A

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
STX6			603944	
STX7			603217	
STXBP1	NM_001374313.2:19 NM_001374314.1:19		602926	MUNC18-1, UNC18, hUNC18, nSec1, rbSec1
STXBP5L			609381	KIAA1006, LLGL4, tomosyn-2
STYXL1			616695	DUSP24, MK-STYX
SUCLA2		NM_003850.3:8	603921	LINC00444
SUCLG1			611224	
SUCLG2			603922	
SUCO			619434	C1orf9, CH1, OPT, SLP1
SUFU	NM_016169:1 NM_001178133:1		607035	PRO1280, SUFUH, SUFUXL
SUGCT			609187	C7orf10, DERP13, FLJ11808, ORF19
SULF1			610012	KIAA1077, SULF-1, hSulf-1
SUMF1			607939	FGE, UNQ3037
SUMO1	NM_001371394.1:5		601912	GMP1, OFC10, PIC1, SMT3C, SMT3H3, SUMO-1, UBL1
SUN1	NM_001367635.1:7 NM_001367636.1:6-8 NM_001367637.1:4 NM_001367638.1:7 NM_001367639.1:5 NM_001367640.1:7-8 NM_001367641.1:7-8 NM_001367642.1:7 NM_001367643.1:7-8 NM_001367644.1:6 NM_001367645.1:6, 13 NM_001367646.1:6-7 NM_001367647.1:6-7 NM_001367648.1:6 NM_001367649.1:6-7 NM_001367651.1:2, 7-8 NM_001367655.1:6-8 NM_001367658.1:6 NM_001367664.1:7 NM_001367666.1:6-8 NM_001367667.1:6 NM_001367668.1:6-7 NM_001367673.1:6-7 NM_001367674.1:7 NM_001367675.1:7-8 NM_001367676.1:7-8 NM_001367677.1:7-8 NM_001367678.1:7-9 NM_001367679.1:6 NM_001367680.1:6 NM_001367681.1:6 NM_001367682.1:7-8	NM_001367669.1:6	607723	FLJ12407, KIAA0810, UNC84A

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
	NM_001367683.1:7 NM_001367684.1:6-7 NM_001367685.1:7 NM_001367686.1:6 NM_001367687.1:7-9, 17 NM_001367688.1:7 NM_001367689.1:6 NM_001367690.1:7-9 NM_001367691.1:6-8 NM_001367692.1:7-8 NM_001367693.1:7-8 NM_001367695.1:6 NM_001367696.1:7 NM_001367697.1:7-8 NM_001367698.1:7-8 NM_001367699.1:7-9 NM_001367700.1:7-8 NM_001367701.1:6 NM_001367702.1:7 NM_001367703.1:7-9 NM_001367704.1:7 NM_001367705.1:7-9 NM_001367706.1:6-7			
SUN2	NM_001394427.1:8	NM_001394429.1:5 NM_001394430.1:4 NM_001394431.1:18	613569	UNC84B
SUN5			613942	SPAG4L, TSARG4, dJ726C3.1
SUOX			606887	
SUPT5H			602102	FLJ34157, SPT5, SPT5H
SYCE1			611486	C10orf94, CT76, bA108K14.6
SYCP3			604759	
SYN1			313440	MRX50
SYN2	NM_133625.6:1-2 NM_003178.5:1-2		600755	SYNII, SYNIIa, SYNIIb
SYN3			602705	
SYNCRIP			616686	GRY-RBP, HNRNPQ, HNRPQ1, NSAP1, dJ3J17.2, hnRNP-Q
SYNE1	NM_001347702.1:1		608441	8B, ARCA1, C6orf98, CPG2, KIAA0796, MYNE1, Nesp1, Nesprin-1, SCAR8, SYNE-1B, dJ45H2.2, enaptin
SYNE2			608442	DKFZP434H2235, KIAA1011, NUA, NUANCE, Nesp2, Nesprin-2, SYNE-2
SYNGAP1		NM_006772.3:19	603384	KIAA1938, RASA5, SYNGAP
SYNGR1			603925	
SYNJ1			604297	INPP5G, PARK20

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
SYNPO			608155	KIAA1029
SYP			313475	MRX96
SYT1			185605	P65, SVP65, SYT
SYT14	NM_001146261.2:3 NM_001146264.3:3 NM_001397544.1:4 NM_001397545.1:5		610949	FLJ34198, sytXIV
SYT2			600104	
SZT2	NM_001365999.1:22		615463	C1orf84, FLJ10387, FLJ34502, KIAA0467, KICS1, RP11-506B15.1, SZT2A, SZT2B
TAB2			605101	KIAA0733, MAP3K7IP2
TAC3			162330	LncZBTB39, LncZBTB39-1:2, NK3, NKB, NKNB, ZNEUROK1
TAC01			612958	CCDC44
TACR3			162332	NK3R, NKR, TAC3R
TACSTD2			137290	EGP-1, GA733-1, M1S1, TROP2
TADA2A			602276	ADA2, ADA2A, TADA2L, hADA2
TAF15			601574	Npl3, RBP56, TAF2N, hTAFII68
TAF2			604912	CIF150, TAF2B, TAFII150
TAF4B			601689	TAF2C2, TAFII105
TAF6	NM_001365004.1:2		602955	MGC:8964, TAF2E, TAFII70, TAFII80, TAFII85
TAFAZZIN			300394	BTHS, CMD3A, EFE, EFE2, G4.5, TAZ, TAZ1
TAL2			186855	bHLHa19
TALD01			602063	
TANC1			611397	KIAA1728, ROLSB
TANC2	NM_001394998.1:5, 24	NM_001394998.1:4	615047	DKFZP564D166, FLJ10215, FLJ11824, KIAA1148, KIAA1636, ROLSA, rols
TAP1			170260	ABC2, D6S114E, PSF1, RING4
TAP2			170261	ABC3, D6S217E, PSF2, RING11
TAPBP			601962	TAPA
TARS2			612805	FLJ12528, TARSL1
TAS2R16			604867	T2R16
TAS2R38			607751	PTC, T2R61
TAT			613018	
TAX1BP3			616484	TIP-1
TBC1D20			611663	C20orf140, dJ852M4.2

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
TBC1D24			613577	DFNA65, DFNB86, KIAA1171, TLDC6
TBC1D4			612465	AS160, DKFZp779C0666, KIAA0603
TBC1D7			612655	FLJ32666, TBC7, dJ257A7.3
TBCD			604649	
TBCK			616899	HSPC302, MGC16169
TBL1X			300196	EBI, TBL1
TBL1XR1			608628	C21, DC42, FLJ12894, IRA1, TBLR1
TBP			600075	GTF2D1, SCA17, TBP1, TFIID
TBR1			604616	
TBX1	NM_080647.1:3 NM_001379200.1:1 NM_005992.1:3 NM_080646.1:3		602054	CATCH22, VCF
TBX15			604127	TBX14
TBX18			604613	
TBX20	NM_001077653.2:8		606061	
TBX21			604895	T-bet, TBLYM
TBX22			300307	CLPA, CPX
TBX3			601621	TBX3-ISO, UMS, XHL
TBX4			601719	
TBX5			601620	HOS
TBX6			602427	
TBXAS1	NM_001366538.2:5		274180	CYP5, CYP5A1, THAS, TS, TXAS, TXS
TBXT			601397	T
TCAP			604488	CMD1N, LGMD2G, T-cap, TELE, telethonin
TCF20			603107	AR1, SPBP
TCF21			603306	POD1, bHLHa23
TCF3			147141	E2A, E47, ITF1, MGC129647, MGC129648, VDIR, bHLHb21, p75
TCF4			602272	E2-2, ITF2, SEF2-1B, bHLHb19
TCIRG1			604592	ATP6N1C, ATP6V0A3, Atp6i, OC-116, OC116, TIRC7, a3
TCN2			613441	D22S676, D22S750, TC2
TCTN1	NM_001173976.2:2		609863	FLJ21127, JBTS13, TECT1
TCTN2			613846	C12orf38, FLJ12975, JBTS24, MKS8, TECT2

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
TCTN3			613847	C10orf61, DKFZP564D116, JBTS18, TECT3
TDGF1	NM_003212.4:6 NM_001174136.2:6		187395	CR, CR-1, CRIPTO, Cripto-1
TDP1			607198	FLJ11090, SCAN1
TDP2			605764	TTRAP
TDRD7			611258	PCTAIRE2BP
TEAD1			189967	AA, TCF13, TEF-1
TECPR2			615000	KIAA0329
TECR	NM_138501.6:13 NM_001321170.1:14		610057	GPSN2, MRT14, SC2, TER
TECRL	NM_001363796.1:12		617242	DKFZp313B2333, DKFZp313D0829, GPSN2L, SRD5A2L2, TERL
TEK			600221	CD202b, TIE-2, TIE2, VMCM, VMCM1
TELO2			611140	KIAA0683, TEL2, hCLK2
TENM1			300588	ODZ1, ODZ3, TEN-M1, TEN1, TNM
TENM3			610083	KIAA1455, ODZ3, TEN3, Ten-M3
TERC			602322	SCARNA19, TER, TR, TRC3, hTR
TERF2IP			605061	RAP1
TERT			187270	EST2, TCS1, TP2, TRT, hEST2
TESK2			604746	
TET2			612839	FLJ20032, KIAA1546
TEX15	NM_001350162.2:3-7	NM_001350162.2:8	605795	CT42
TF			190000	PRO1557, PRO2086
TFAM			600438	TCF6, TCF6L2
TFAP2A			107580	AP-2, AP-2alpha, AP2TF, TFAP2
TFAP2B			601601	AP-2beta, AP2-B
TFCP2			189889	CP2, LBP-1C, LSF, TFCP2C
TFE3			314310	TFEA, bHLHe33
TFG			602498	FLJ36137, SPG57, TF6
TFR2			604720	HFE3, TFRC2
TFRC			190010	CD71, TFR1, p90
TGDS			616146	SDR2E1, TDPGD
TGFB1			190180	CED, DPD1, TGFB, TGFBeta
TGFB2			190220	
TGFB3			190230	ARVD, ARVD1
TGFBI			601692	BIGH3, CDB1, CDGG1, CSD1, CSD2, CSD3, LCD1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
TGFBR1			190181	ACVRLK4, ALK-5, ALK5, ESS1, MSSE, TBR-i, TBRI
TGFBR2			190182	MFS2, TBR-ii, TBRII
TGFBR3			600742	BGCAN, betaglycan
TGIF1			602630	HPE4, TGIF
TGM1			190195	ICR2, LI, LI1, TGASE, TGK
TGM2			190196	TGC
TGM3			600238	TGE
TGM6			613900	SCA35, TGM3L, TGY, dJ734P14.3
TH			191290	DYT5b
THAP1			609520	4833431A01Rik, DYT6, FLJ10477
THBD			188040	BDCA-3, CD141, THRM
THBS1			188060	THBS, THBS-1, TSP, TSP-1, TSP1
THG1L			618802	FLJ11601, FLJ20546, ICF45, IHG-1, hTHG1
THOC2			300395	CXorf3, MRX12, MRX35, THO2, dJ506G2.1
THOC6			615403	MGC2655, WDR58, fsAP35
THPO			600044	MGDF, MPLLG, TPO
THRA			190120	AR7, EAR-7.1/EAR-7.2, ERBA, ERBA1, NR1A1, THRA1, THRA2, THRA3, THRalpha, THRalpha1, THRalpha2, TRalpha, TRalpha1, TRalpha2, c-ERBA-1, c-erbA
THSD1			616821	TMTSP
TIA1	NM_001351515.2:5 NM_001351520.2:6 NM_001351522.2:7	NM_001351518.1:8 NM_001351519.2:7 NM_001351521.2:6 NM_001351523.2:5	603518	TIA-1
TIAM1	NM_001353684.1:1 NM_001353685.1:1		600687	
TICAM1	NM_001385678.1:2		607601	MGC35334, PRVTIRB, TICAM-1, TRIF
TIMM44			605058	TIM44
TIMP3			188826	SFD
TINF2			604319	TIN2
TIRAP			606252	Mal, wyatt
TJP2			607709	DFNA51, X104, ZO-2, ZO2
TKT	NM_001258028.1:5		606781	
TLE6			612399	FLJ14009, GRG6
TLL1			606742	
TLR2			603028	CD282, TIL4

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
TLR3			603029	CD283
TLR4			603030	ARMD10, CD284, TLR-4, hToll
TLR9			605474	CD289
TM2D3			610014	BLP2, FLJ22604
TM4SF20			615404	FLJ22800, TCCE518
TMC2			606707	C20orf145, dJ686C3.3
TMC6			605828	EVER1, EVIN1, LAK-4P, TNRC6C-AS1
TMC8			605829	EVER2, EVIN2
TMCO1			614123	HP10122, TMCC4
TMCO3		NM_001349741.2:9	617134	C13orf11, FLJ20623
TMEM107			616183	JBTS29, MGC10744, MKS13
TMEM126A			612988	DKFZp586C1924, OPA7
TMEM126B		NM_001350394.1:3 NM_001350395.1:4 NM_001350396.1:4	615533	HT007
TMEM127			613403	FLJ20507, FLJ22257
TMEM132D			611257	KIAA1944, MOLT, PPP1R153
TMEM132E			616178	DFNB99
TMEM135			616360	FLJ22104
TMEM138			614459	HSPC196, JBTS16
TMEM165			614726	GDT1, SLC64A1, TMPT27, TPARG
TMEM187			300059	CXorf12, DXS9878E, ITBA1
TMEM199			616815	C17orf32, MGC45714, VMA12, VPH2
TMEM230	NM_001009923.2:2		617019	C20orf30, HSPC274
TMEM231	NM_001077416.2:2-3 NM_001077418.3:3-4		614949	ALYE870, FLJ22167, JBTS20, MKS11, PRO1886
TMEM237			614423	ALS2CR4, JBTS14
TMEM240			616101	C1orf70, SCA21
TMEM38B			611236	C9orf87, D4Ertd89e, FLJ10493, TRIC-B, bA219P18.1
TMEM43			612048	ARVD5, DKFZp586G1919, LUMA, MGC3222
TMEM67			609884	JBTS6, MGC26979, MKS3, NPHP11
TMEM92			619604	FLJ33318
TMEM98			615949	DKFZP564K1964
TMLHE	NM_018196.4:7-8 NM_001184797.2:7		300777	BBOX2, FLJ10727, TMLH, XAP130
TMPO			188380	LAP2, LEMD4, TP

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
TMPRSS15			606635	ENTK, MGC133046, PRSS7
TMPRSS4			606565	CAP2, MT-SP2, TMPRSS3
TMPRSS5			606751	MGC141886, MGC148044
TMTC3			617218	FLJ90492, SMILE
TMX3		NM_001350513.1:8	616102	FLJ20793, KIAA1830, PDIA13, TXNDC10
TNC			187380	DFNA56, HXB, MGC167029, TN
TNF			191160	DIF, TNF-alpha, TNFA, TNFSF2
TNFAIP3			191163	A20, OTUD7C
TNFRSF10B			603612	CD262, DR5, KILLER, TRAIL-R2, TRAILR2, TRICK2A, TRICKB
TNFRSF11A	NM_003839.4:1 NM_001270949.1:1 NM_001270950.1:1 NM_001270951.2:1 NM_001278268.2:1		603499	CD265, FEO, LOH18CR1, ODFR, PDB2, RANK, TRANCE-R
TNFRSF11B			602643	OCIF, OPG, TR1
TNFRSF13B			604907	CD267, IGAD2, TACI
TNFRSF1A	NM_001346092.2:6		191190	CD120a, TNF-R, TNF-R-I, TNF-R55, TNFAR, TNFR1, TNFR60
TNFRSF4			600315	ACT35, CD134, OX40, TXGP1L
TNFRSF6B			603361	DCR3, DcR3, M68, TR6
TNFSF11			602642	CD254, ODF, OPGL, RANKL, TRANCE
TNFSF4			603594	CD252, OX-40L, TXGP1, gp34
TNFSF8			603875	CD153, CD30LG
TNIK			610005	KIAA0551
TNK2			606994	ACK, ACK1, p21cdc42Hs
TNNC1			191040	TNNC
TNNI2			191043	AMCD2B, DA2B, FSSV, fsTnl
TNNI3			191044	CMD2A, CMH7, TNNC1, cTNI
TNNI3K			613932	CARK
TNNT2			191045	CMD1D, CMH2, CMPD2
TNNT3			600692	AMCD2B, DA2B, DKFZp779M2348, FSSV
TNR			601995	
TOE1			613931	TOE-1, hCaf1z
TOMM20			601848	KIAA0016, MAS20, MOM19, TOM20

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
TOMM40			608061	C19orf1, D19S1177E, PEREC1, PEREC1, TOM40
TONSL			604546	IKBR, NFKBIL2
TOP1			126420	
TOP2A			126430	TOP2, TOP2alpha, TOPIIA
TOPBP1			607760	Dpb11, KIAA0259, TOP2BP1
TOR1A			605204	DQ2, DYT1
TP53			191170	LFS1, p53
TP63			603273	EEC3, KET, NBP, OFC8, SHFM4, TP53CP, TP53L, TP73L, p40, p51, p53CP, p63, p73H, p73L
TPH1			191060	TPH, TPRH
TPH2			607478	FLJ37295, NTPH
TPI1			190450	
TPK1	NM_001350881.1:9 NM_001350882.1:5 NM_001350883.1:4 NM_001350884.2:3 NM_001350895.1:7		606370	HTPK1, PP20
TPM1		NM_001365777.1:9 NM_001365780.1:8	191010	C15orf13, CMH3
TPM2			190990	AMCD1, DA1, NEM4
TPMT			187680	
TPO			606765	TPX
TPP1			607998	CLN2, LPIC, SCAR7, TPP-1
TPP2	NM_001367947.1:27		190470	TPPII
TRAF1			601711	EBI6
TRAF3			601896	CAP-1, CD40bp, CRAF1, LAP1, RNF118
TRAF3IP1			607380	CFAP116, DKFZP434F124, FAP116, IFT54, MIP-T3, MIPT3
TRAF3IP2			607043	ACT1, C6orf2, C6orf4, C6orf5, C6orf6, CIKS, DKFZP586G0522
TRAIP			605958	RNF206, TRIP
TRAK2			607334	ALS2CR3, CALS-C, GRIF-1, KIAA0549, MILT2, OIP98
TRAP1			606219	HSP75, HSP90L
TRAPPC2			300202	MIP-2A, SEDL, SEDT, TRS20, ZNF547L, hYP38334
TRDN			603283	TRISK
TREM2			605086	TREM-2, Trem2a, Trem2b, Trem2c

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
TREML4			614664	TLT4
TREX1			606609	AGS1, DRN3
TRHR			188545	
TRIB3			607898	C20orf97, TRB3, dJ1103G7.3
TRIM2	NM_001375488.1:4 NM_001375489.1:4		614141	CMT2R, KIAA0517, RNF86
TRIM22			606559	GPSTAF50, RNF94, STAF50
TRIM37		NM_001353082.2:22 NM_001353084.2:23	605073	KIAA0898, MUL, POB1, TEF3
TRIM44			612298	DIPB, MC7
TRIM55			606469	MURF-2, RNF29
TRIM63			606131	IRF, MURF-1, RNF28, SMRZ
TRIM8			606125	GERP, RNF27
TRIML2				FLJ25801, SPRYD6
TRIO	NM_007118.4:1		601893	ARHGEF23
TRIP11			604505	CEV14, GMAP-210, GMAP210, Trip230
TRIP12		NM_001348334.1:7 NM_001348335.1:6 NM_001348336.1:6	604506	KIAA0045, TRIPC, ULF
TRIP4			604501	ASC-1, HsT17391, ZC2HC5
TRIT1			617840	FLJ20061, IPT
TRMT1			611669	FLJ20244, TRM1
TRMT10C			615423	FLJ20432, MRPP1, RG9MTD1
TRMT5	NM_001350253.1:1 NM_001350254.1:1		611023	KIAA1393, TRM5
TRNT1			612907	CCA1, CGI-47, MtCCA
TRPC6			603652	FSGS2, TRP6
TRPM1			603576	CSNB1C, LTRPC1, MLSN1
TRPM2			603749	EREG1, KNP3, LTRPC2, NUDT9H, NUDT9L1, TRPC7
TRPM3	NM_001366141.2:1 NM_001366142.2:1, 27 NM_001366143.2:1, 26 NM_001366144.1:1 NM_001366146.2:27 NM_001366148.2:27 NM_001366150.2:25 NM_001366151.2:26 NM_001366152.2:28 NM_001366154.2:27		608961	GON-2, KIAA1616, LTRPC3
TRPM6			607009	CHAK2, FLJ22628, HOMG, HSH
TRPS1			604386	GC79, LGCR

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
TRPV3			607066	VRL3
TRPV4			605427	CMT2C, OTRPC4, TRP12, VR-OAC, VRL-2, VROAC
TSC1			605284	KIAA0243, LAM, TSC, hamartin
TSC2			191092	LAM, PPP1R160, TSC4, tuberin
TSEN15	NM_001363643.2:4		608756	C1orf19
TSEN2	NM_001321278.2:12		608753	MGC2776, SEN2, SEN2L
TSEN34			608754	LENG5, SEN34, SEN34L
TSEN54	NM_207346.3:1		608755	SEN54, SEN54L
TSG101			601387	TSG10, VPS23
TSHB			188540	
TSHR			603372	LGR3
TSPAN12			613138	NET-2, TM4SF12
TSPAN7			300096	A15, CD231, DXS1692E, MRX58, MXS1, TALLA-1, TM4SF2
TSPEAR			612920	C21orf29, DFNB98, MGC11251, TSP-EAR
TSPYL1			604714	TSPYL
TSR2			300945	DT1P1A10, RP1-112K5.2, WGG1
TTBK1			619415	KIAA1855
TTC19			613814	FLJ20343, MGC19520
TTC21B			612014	CFAP60, FAP60, FLA17, FLJ11457, IFT139, IFT139B, JBTS11, NPHP12, THM1
TTC3			602259	DCRR1, RNF105, TPRD, TPRDI, TPRDII, TPRDIII
TTC7A			609332	KIAA1140, TTC7
TTI1			614425	KIAA0406, smg-10
TTI2			614426	C8orf41, FLJ23263
TTLL10				FLJ36119, TTLL5
TTN	NM_001267550.2:172-197 NM_001256850.1:154-156 NM_133378.4:153-155		188840	CMD1G, CMH9, CMPD4, FLJ32040, LGMD2J, MYLK5, TMD
TTPA			600415	AVED
TTR (NM_000371)			176300	CTS, CTS1, HsT2651, PALB
TUB			601197	rd5
TUBA4A			191110	FLJ30169, H2-ALPHA, TUBA1
TUBA8			605742	TUBAL2
TUBB			191130	M40, MGC16435, OK/SW-cl.56, Tubb5

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
TUBB1			612901	dJ543J19.4
TUBB2A	NM_001069.3:2, 4 NM_001310315.2:4		615101	TUBB, TUBB2, dJ40E16.7
TUBB2B	NM_178012.5:4		612850	DKFZp566F223, MGC8685, bA506K6.1
TUBB3			602661	CFEOM3, CFEOM3A, FEOM3, beta-4
TUBB4A			602662	DYT4, TUBB4, beta-5
TUBGCP4			609610	76P, FLJ14797
TUBGCP6			610053	DJ402G11.6, GCP6, KIAA1669
TUSC3			601385	MGC13453, MRT22, MRT7, MagT2, N33, OST3A, SLC58A2
TWIST2			607556	DERMO1, Dermo-1, bHLHa39
TXN2			609063	MT-TRX
TXNDC15			617778	2310047H23Rik, C5orf14, FLJ22625
TXNL4A			611595	DIB1, DIM1, HsT161, SNRNP15, TXNL4, U5-15kD
TXNRD2	NM_001352301.1:1 NM_001352303.1:1		606448	SELZ, TR, TR3, TRXR2
TYK2	NM_001385203.1:19	NM_001385204.1:17	176941	JTK1
TYR	NM_000372.5:5		606933	OCA1, OCA1A, OCAIA
TYROBP			604142	DAP12, KARAP, PLO-SL, PLOSL
TYRP1			115501	CAS2, CATB, GP75, OCA3, TRP, TYRP, b-PROTEIN
UACA			612516	FLJ10128, KIAA1561
UBA1			314370	A1S9T, CFAP124, GXP1, POC20, UBE1, UBE1X
UBA5			610552	FLJ23251, UBE1DC1
UBE2A			312180	HHR6A, HR6A, RAD6A, UBC2
UBE2B			179095	HHR6B, RAD6B, UBC2
UBE2T			610538	FANCT, HSPC150
UBE3A	NM_001354523.2:5		601623	ANCR, AS, E6-AP, EPVE6AP, FLJ26981, HPVE6A
UBE3B			608047	
UBE3C			614454	KIAA0010, KIAA10
UBIAD1			611632	SCCD, TERE1
UBR4			609890	KIAA0462, KIAA1307, RBAF600, ZUBR1, p600
UBR5			608413	DD5, EDD, EDD1, HYD, KIAA0896

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
UBR7			613816	C14orf130
UCHL1			191342	PARK5, PGP9.5, UCHL-1, Uch-L1
UCP1			113730	SLC25A7, UCP
UCP2			601693	BMIQ4, SLC25A8
UCP3			602044	SLC25A9
UFD1			601754	UFD1L
UFSP2			611482	C4orf20, FLJ11200
UGT1A1 (NM_000463), promoter (NC_000002)			191740	GNT1, UGT1, UGT1A
UGT1A4			606429	HUG-BR2, UGT1D
UGT1A6			606431	GNT1, HLUGP, UGT1F
UGT1A7			606432	UGT1G
UGT1A9			606434	HLUGP4, LUGP4, UGT1AI
UGT2B10			600070	
UGT2B7			600068	UGT2B9
ULK4			617010	FAM7C1, FLJ20574, REC01035
UMPS			613891	
UNC119			604011	HRG4, POC7, POC7A
UNC13A			609894	KIAA1032, Munc13-1
UNC13D			608897	Munc13-4
UNC45B			611220	CMYA4, UNC45
UNC5C			603610	
UNC80	NM_001371986.1:27		612636	C2orf21, FLJ33496, KIAA1843, UNC-80
UNC93B1			608204	UNC93
UNG			191525	DGU, HIGM4, UDG, UNG1, UNG2
UPB1			606673	BUP1
UPF1	NM_002911.4:1 NM_001297549.2:1		601430	HUPF1, KIAA0221, NORF1, RENT1, pNORF1, smg-2
UPF2			605529	DKFZP434D222, KIAA1408, RENT2, smg-3
UPF3A	NM_023011.4:9-10 NM_001353644.2:7-8 NM_001353645.1:9-10 NM_001353646.1:7-8 NM_001353647.1:8-9 NM_001353648.2:8-9 NM_001353649.1:7-8 NM_001353650.1:9-10 NM_001353651.2:5 NM_001353652.2:6 NM_080687.3:8-9		605530	HUPF3A, RENT3A, UPF3
UPF3B			300298	HUPF3B, MRX62, MRX82, RENT3B, UPF3BP1,

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
				UPF3BP2, UPF3BP3, UPF3X
UPK3A			611559	UPK3
UQCC2			614461	C6orf125, Cbp6, M19, MGC14833, MNF1, bA6B20.2
UQCC3			616097	C11orf83, UNQ655
UQCRC2			191329	QCR2, UQCR2
UROC1			613012	FLJ31300, HMFN0320
UROD			613521	
UROS			606938	
USB1			613276	C16orf57, FLJ13154, HVSL1, Mpn1
USF1			191523	MLTF1, UEF, bHLHb11
USP26			300309	
USP27X			300975	USP27
USP34			615295	KIAA0570, KIAA0729
USP44			610993	FLJ14528
USP8			603158	HumORF8, KIAA0055, SPG59, UBPY
USP9Y			400005	AZFA, DFFRY
UTP4			607456	CIRH1A, CIRHIN, FLJ14728, KIAA1988, NAIC, TEX292
UTRN	NM_001375323.1:1		128240	DMDL, DRP, DRP1
UVSSA			614632	KIAA1530
VAC14			604632	ArPIKfyve, FLJ10305, TAX1BP2
VAMP1			185880	SYB1, VAMP-1
VAMP2			185881	SYB2, VAMP-2
VAMP7			300053	SYBL1, TI-VAMP, VAMP-7
VANGL1			610132	STB2
VANGL2			600533	KIAA1215, LPP1, LTAP, MGC119403, MGC119404, STB1, STBM, STBM1
VAPB			605704	ALS8, VAP-B, VAP-C
VARS1			192150	VARS, VARS2
VARS2			612802	DKFZP434L1435, G7a, KIAA1885, VARS2L, VARSL
VAV3			605541	
VCAN			118661	CSPG2, PG-M
VCL			193065	
VEGFA			192240	VEGF, VEGF-A, VPF
VEGFC			601528	VEGF-C, VRP
VHL	NM_001354723.2:2		608537	VHL1

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
VLDLR			192977	CARMQ1, CHRMQ1, VLDLRCH
VMA21	NM_001363810.1:1		300913	MEAX, XMEA
VPREB1			605141	CD179A, VpreB
VPS11			608549	PEP5, RNF108
VPS13A			605978	BLTP5A, CHAC, KIAA0986
VPS13B			607817	BLTP5B, CHS1, COH1
VPS33A	NM_001351018.2:1 NM_001351019.2:1 NM_001351021.2:5		610034	
VPS37A			609927	FLJ32642, HCRP1, PQBP2, SPG53
VPS45			610035	H1, VPS45A, VPS45B, h-vps45
VPS4B			609983	SKD1, SKD1B, VPS4-2
VPS53	NM_001366254.2:8		615850	FLJ10979, HCCS1
VRK1			602168	
VSIG4			300353	CRlg, Z39IG
VSX2			142993	CHX10, HOX10, RET1
VTN			193190	VN
VWF (NM_000552)	NM_000552.5:26, 34		613160	F8VWF
WAS			300392	IMD2, THC, WASP, WASPA
WASHC4			615748	KIAA1033, SWIP
WASHC5			610657	KIAA0196, SPG8
WBP2			606962	GRAMD6, WBP-2
WDPCP	NM_001354044.2:2 NM_001354045.2:13		613580	BBS15, C2orf86, CPLANE5, fritz, hFrtz
WDR1			604734	AIP1
WDR11			606417	BRWD2, DR11, FLJ10506, HH14, KIAA1351, SRI1, WDR15
WDR13			300512	
WDR19			608151	CFAP66, DYF-2, FAP66, FLJ23127, IFT144, KIAA1638, NPHP13, ORF26, Oseg6, Pwdmp
WDR26		NM_001379403.1:1	617424	FLJ21016, GID7
WDR35			613602	CFAP118, FAP118, IFT121, IFTA1, KIAA1336, MGC33196
WDR36			609669	GLC1G, TA-WDRP, UTP21
WDR4			605924	TRM82, TRMT82, Wuho
WDR45			300526	JM5, NBIA5, WDRX1, WIPI4
WDR45B			609226	WDR45L, WIPI3
WDR48			612167	Bun62, KIAA1449, P80, SPG60

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
WDR5			609012	CFAP89, SWD3
WDR73			616144	FLJ14888, HSPC264
WDR81			614218	CAMRQ2, FLJ33817, PPP1R166, SORF-2
WDR87				NYD-SP11
WDR93			619891	C1d-87, CFAP297, FAP297
WFS1			606201	DFNA14, DFNA38, DFNA6, DIDMOAD, WFS
WIF1			605186	
WIPF1	NM_001375835.1:9	NM_001375836.1:5 NM_001375837.1:5 NM_001375838.1:5	602357	WASPIP, WIP
WNK1			605232	HSAN2, HSN2, PPP1R167, PRKWNK1
WNT1			164820	INT1
WNT10B			601906	SHFM6, WNT-12
WNT3			165330	INT4, MGC131950, MGC138321, MGC138323
WNT4			603490	WNT-4
WNT5A			164975	hWNT5A
WNT6			604663	
WNT7A			601570	Wnt-7a
WNT8A			606360	WNT8D
WNT9B			602864	WNT14B, WNT15
WRAP53			612661	FLJ10385, TCAB1, WDR79
WRN			604611	RECQ3, RECQL2
WT1			607102	AWT1, GUD, NPFS4, WAGR, WIT-2, WT-1
WWOX			605131	FOR, SDR41C1, WOX1
XAF1	NM_001353134.2:5 NM_001353137.2:4 NM_001353138.2:5		606717	BIRC4BP, HSXIAPAF1, XIAPAF1
XBP1	NM_001393999.1:1 NM_001394000.1:1		194355	XBP2
XDH			607633	XO, XOR
XIAP	NM_001167.4:4 NM_001204401.2:4 NM_001378590.1:4 NM_001378591.1:5 NM_001378592.1:4		300079	API3, BIRC4, ILP-1, hILP
XIRP1			609777	CMYA1, DKFZp451D042, Xin
XIRP2			609778	CMYA3
XK			314850	Kx, NA, NAC, X1k, XKR1
XPA	NM_001354975.1:1		611153	XP1, XPAC
XPC	NM_001354727.2:10		613208	RAD4, XPCC

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
XPR1			605237	SLC53A1, SYG1, X3
XRCC1			194360	RCC
XRCC2			600375	FANCU
XRCC3			600675	
XRCC4			194363	
XYLT2			608125	PXYLT2, XT-II
YAP1			606608	YAP-1, YAP65
YARS1			603623	YARS, YRS, YTS, tyrRS
YARS2			610957	CGI-04, FLJ13995, mt-TyrRS
YEATS4			602116	GAS41, NuBI-1, YAF9
YME1L1			607472	YME1L
YWHAE			605066	FLJ45465
YY1			600013	DELTA, INO80S, NF-E1, UCRBP, YIN-YANG-1
ZAP70			176947	SRK, STD, ZAP-70
ZBTB16			176797	PLZF, ZNF145
ZBTB18			608433	C2H2-171, RP58, TAZ-1, ZNF238
ZBTB20			606025	DKFZp566F123, DPZF, ODA-8S, ZNF288
ZBTB24			614064	BIF1, KIAA0441, PATZ2, ZNF450
ZBTB33			300329	KAISO, WUGSC:H_DJ525N14.1, ZNF-kaiso, ZNF348, kaiso
ZBTB40			612106	KIAA0478, ZNF923
ZBTB42			613915	ZNF925
ZC3H14			613279	FLJ11806, NY-REN-37, UKp68
ZCCHC12			300701	FLJ16123, PNMA7A, SIZN, SIZN1
ZCCHC8			616381	DKFZp434E2220
ZDBF2			617059	FLJ45338, KIAA1571
ZDHHC9			300646	CGI-89, CXorf11, DHHC9, ZDHHC10, ZNF379, ZNF380
ZEB1			189909	AREB6, BZP, FECD6, NIL-2-A, PPCD3, TCF8, ZEB, Zfhp, Zfhx1a
ZEB2			605802	KIAA0569, SIP-1, SIP1, ZFHX1B
ZFP36L1			601064	BRF1, Berg36, ERF1, RNF162B, TIS11B, cMG1
ZFP57			612192	C6orf40, ZNF698, bA145L22, bA145L22.2

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
ZFPM2			603693	FOG2, ZC2HC11B, ZNF89B, hFOG-2
ZFR			615635	SPG71, ZFR1
ZFYVE26			612012	KIAA0321, SPG15
ZFYVE27	NM_001385876.1:4 NM_001385882.1:12 NM_001385883.1:12 NM_001385884.1:12		610243	FLJ32919, SPG33
ZHX3	NM_001384325.1:4	NM_001384324.1:5	609598	KIAA0395, TIX1
ZIC1			600470	ZIC, ZNF201
ZIC2		NM_007129.5:3	603073	HPE5
ZIC3			300265	HTX, HTX1, ZNF203
ZMYND10			607070	BLU, CILD22, DNAAF7
ZMYND11	NM_001370116.2:1 NM_001370120.2:1		608668	BRAM1, BS69
ZMYND15			614312	DKFZp434N127
ZNF143			603433	SBF, STAF, pHZ-1
ZNF148	NM_001348436.2:9		601897	BERF-1, BFCOL1, HT-BETA, ZBP-89, ZFP148, pHZ-52
ZNF224			194555	BMZF-2, KOX22, ZNF255, ZNF27
ZNF335			610827	NIF-1, bA465L10.2
ZNF34			194526	KOX32
ZNF365			607818	KIAA0844, Su48, UAN
ZNF407			615894	FLJ13839, FLJ20307, KIAA1703
ZNF408			616454	FLJ12827
ZNF41			314995	MGC8941, MRX89
ZNF423	NM_001379286.1:1		604557	Ebfaz, JBTS19, KIAA0760, NPHP14, OAZ, Zfp104, hOAZ
ZNF469		NM_001367624.2:3	612078	KIAA1858, Zfp469
ZNF513			613598	FLJ32203, RP58, Zfp513
ZNF528			615580	KIAA1827
ZNF543			616847	DKFZp434H055
ZNF589			616702	SZF1
ZNF592	NM_014630.3:11		613624	CAMOS, KIAA0211, SCAR5
ZNF644			614159	BM-005, KIAA1221, MGC60165, MGC70410
ZNF674			300573	MRX92, ZNF673B
ZNF687			610568	KIAA1441
ZNF711			314990	CMPX1, MRX65, MRX97, ZNF4, ZNF5, ZNF6, Zfp711, dJ75N13.1
ZNF750			610226	FLJ13841, Zfp750

Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases
ZNF81	NM_001378154.1:6 NM_001378155.1:5		314998	HFZ20, MRX45
ZNHIT6				BCD1, C1orf181, FLJ20729, NY-BR-75
ZP1			195000	ZPB1
ZPBP			608498	SP38, ZPBP1
ZSWIM6	NM_020928.2:1		615951	KIAA1577
Gene	Coding Exons and Common Variants Not Covered RefSeq: exon(s)	Coding Exons Partially Covered RefSeq: exon(s)	OMIM Number	Gene Aliases