

nCounter Human Pan-Cancer Pathways Panel - Gene List

Official Symbol	Accession	Alias / Prev Symbol	Official Full Name
ABL1	NM_005157.3	ABL, JTK7, c-ABL, p150	c-abl oncogene 1, non-receptor tyrosine kinase
ACVR1B	NM_004302.3	ACVRLK4, ALK4, SKR2, ActRIB	activin A receptor, type IB
ACVR1C	NM_145259.2	ALK7, ACVRLK7	activin A receptor, type IC
ACVR2A	NM_001616.3	ACVR2, ACTRII	activin A receptor, type IIA
AKT1	NM_005163.2	RAC, PKB, PRKBA, AKT	v-akt murine thymoma viral oncogene homolog 1
AKT2	NM_001626.2		v-akt murine thymoma viral oncogene homolog 2
AKT3	NM_181690.1	PKBG, RAC-gamma, PRKBG	v-akt murine thymoma viral oncogene homolog 3
ALK	NM_004304.3	CD246	anaplastic lymphoma receptor tyrosine kinase
ALKBH2	NM_001001655.2	MGC90512, ABH2	alkB, alkylation repair homolog 2 (E. coli)
ALKBH3	NM_139178.3	DEPC-1	alkB, alkylation repair homolog 3 (E. coli)
AMER1	NM_152424.3	FAM123B, RP11-403E24.2, FLJ39827, WTX	APC membrane recruitment protein 1
AMH	NM_000479.3	MIS	anti-Mullerian hormone
ANGPT1	NM_001146.3	KIAA0003, Ang1	angiopoietin 1
APC	NM_000038.3	DP2, DP3, DP2.5, PPP1R46	adenomatous polyposis coli
APH1B	NM_001145646.1	PSFL, APH-1B, DKFZp564D0372	APH1B gamma secretase subunit
AR	NM_001011645.1	DHTR, SBMA, AIS, NR3C4, SMAX1, HUMARA	androgen receptor
ARID1A	NM_006015.4	C1orf4, SMARCF1, B120, P270, C10rf4, BAF250, BAF250a	AT rich interactive domain 1A (SWI-like)
ARID1B	NM_020732.3	KIAA1235, ELD/OSA1, p250R, BAF250b, DAN15, 6A3-5	AT rich interactive domain 1B (SWI1-like)
ARID2	NM_152641.2	KIAA1557, DKFZp686G052, FLJ30619, BAF200	AT rich interactive domain 2 (ARID, RFX-like)
ARNT2	NM_014862.3	KIAA0307, bHLHe1	aryl-hydrocarbon receptor nuclear translocator 2
ASXL1	NM_001164603.1	KIAA0978	additional sex combs like 1 (Drosophila)
ATM	NM_138292.3	ATA, ATDC, ATC, ATD, TEL1, TELO1	ataxia telangiectasia mutated
ATR	NM_001184.2	FRP1, SCKL, SCKL1, MEC1	ataxia telangiectasia and Rad3 related
ATRX	NM_000489.3	RAD54, JMS, XH2, XNP	alpha thalassemia/mental retardation syndrome X-linked
AXIN1	NM_181050.1	PPP1R49	axin 1
AXIN2	NM_004655.3	MGC126582, DKFZp781B0869	axin 2
B2M	NM_004048.2		beta-2-microglobulin
BAD	NM_004322.3	BCL2L8, BBC2	BCL2-associated agonist of cell death
BAIAP3	NM_003933.4	BAP3, KIAA0734	BAI1-associated protein 3
BAMBI	NM_012342.2	NMA	BMP and activin membrane-bound inhibitor
BAP1	NM_004656.2	hucep-6, KIAA0272, UCHL2	BRCA1 associated protein-1 (ubiquitin carboxy-terminal hydrolase)
BAX	NM_138761.3	BCL2L4	BCL2-associated X protein
BCL2	NM_000657.2	Bcl-2, PPP1R50	B-cell CLL/lymphoma 2
BCL2A1	NM_004049.2	HBPA1, GRS, BFL1, BCL2L5, ACC-1, ACC-2	BCL2-related protein A1
BCL2L1	NM_138578.1	BCLX, BCL2L, Bcl-X, bcl-xL, bcl-xs, PPP1R52	BCL2-like 1
BCOR	NM_001123383.1	FLJ20285, KIAA1575	BCL6 corepressor
BDNF	NM_170732.4		brain-derived neurotrophic factor
BID	NM_197966.1		BH3 interacting domain death agonist
BIRC3	NM_182962.1	API2, ciAP2, hiap-1, MIHC, RNF49, MALT2, c-IAP2	baculoviral IAP repeat containing 3
BIRC7	NM_022161.2	mIiap, ML-IAP, KIAP, RNF50	baculoviral IAP repeat containing 7
BMP2	NM_001200.2	BMP2A	bone morphogenetic protein 2
BMP4	NM_001202.2	BMP2B	bone morphogenetic protein 4
BMP5	NM_021073.2		bone morphogenetic protein 5
BMP6	NM_001718.2	VGR, VGR1	bone morphogenetic protein 6
BMP7	NM_001719.1	OP-1	bone morphogenetic protein 7
BMP8A	NM_181809.3		bone morphogenetic protein 8a
BMPR1B	NM_001203.1	ALK6, CDw293	bone morphogenetic protein receptor, type IB
BNIP3	NM_004052.2	Nip3	BCL2/adenovirus E1B 19kDa interacting protein 3
BRAF	NM_004333.3	BRAF1	v-raf murine sarcoma viral oncogene homolog B
BRCA1	NM_007305.2	RNF53, BRCC1, PPP1R53	breast cancer 1, early onset
BRCA2	NM_000059.3	FANCD1, FANCD, FANCD, FAD, FAD1, BRCC2	breast cancer 2, early onset
BRIP1	NM_032043.1	OF, BACH1, FANCI	BRCA1 interacting protein C-terminal helicase 1
C19orf40	NM_152266.3	FLJ46828, MGC32020, FAAP24	chromosome 19 open reading frame 40
CACNA1C	NM_199460.2	CCHL1A1, CACNL1A1, Cav1.2, CACH2, CACN2, TS, LQT8	calcium channel, voltage-dependent, L type, alpha 1C subunit
CACNA1D	NM_000720.2	CCHL1A2, CACNL1A2, Cav1.3, CACH3, CACN4	calcium channel, voltage-dependent, L type, alpha 1D subunit
CACNA1E	NM_000721.2	CACNL1A6, Cav2.3, BII, CACH6	calcium channel, voltage-dependent, R type, alpha 1E subunit
CACNA1G	NM_198397.1	Cav3.1, NBR13	calcium channel, voltage-dependent, T type, alpha 1G subunit
CACNA1H	NM_021098.2	Cav3.2	calcium channel, voltage-dependent, T type, alpha 1H subunit
CACNA2D1	NM_000722.2	CACNL2A, CACNA2, MH53, LINC01112, lncRNA-N3	calcium channel, voltage-dependent, alpha 2/delta subunit 1
CACNA2D2	NM_001005505.1	KIAA0558	calcium channel, voltage-dependent, alpha 2/delta subunit 2
CACNA2D3	NM_018398.2	HSA272268	calcium channel, voltage-dependent, alpha 2/delta subunit 3
CACNA2D4	NM_001005737.1		calcium channel, voltage-dependent, alpha 2/delta subunit 4
CACNB2	NM_000724.3	MYSB, CACNLB2	calcium channel, voltage-dependent, beta 2 subunit
CACNB3	NM_000725.2	CACNLB3	calcium channel, voltage-dependent, beta 3 subunit
CACNB4	NM_001005747.2	EIM4	calcium channel, voltage-dependent, beta 4 subunit
CACNG1	NM_000727.2	CACNLG	calcium channel, voltage-dependent, gamma subunit 1
CACNG4	NM_014405.2	MGC11138, MGC24983	calcium channel, voltage-dependent, gamma subunit 4
CACNG6	NM_145814.1		calcium channel, voltage-dependent, gamma subunit 6
CALML3	NM_005185.2	CLP	calmodulin-like 3

CALML5	NM_017422.4	CLSP	calmodulin-like 5
CALML6	NM_138705.2	CAGLP	calmodulin-like 6
CAMK2B	NM_001220.3	CAMKB, CAM2, CAMK2	calcium/calmodulin-dependent protein kinase II beta
CAPN2	NM_001748.4	mCANP, CANPml, CANPL2	calpain 2, (m/II) large subunit
CARD11	NM_032415.2	CARMA1, BIMP3	caspase recruitment domain family, member 11
CASP10	NM_032977.3	MCH4	caspase 10, apoptosis-related cysteine peptidase
CASP12	NM_001191016.1	CASP12P1	caspase 12 (gene/pseudogene)
CASP3	NM_032991.2	CPP32, CPP32B, Yama, apopain	caspase 3, apoptosis-related cysteine peptidase
CASP7	NM_001227.3	MCH3, CMH-1, ICE-LAP3	caspase 7, apoptosis-related cysteine peptidase
CASP8	NM_001228.4	MCH5, MACH, FLICE, Casp-8	caspase 8, apoptosis-related cysteine peptidase
CASP9	NM_001229.2	MCH6, ICE-LAP6, APAF-3, PPP1R56	caspase 9, apoptosis-related cysteine peptidase
CBL	NM_005188.2	CBL2, RNF55, c-Cbl	Cbl proto-oncogene, E3 ubiquitin protein ligase
CBLC	NM_012116.3	CBL-3, CBL-SL, RNF57	Cbl proto-oncogene C, E3 ubiquitin protein ligase
CCNA1	NM_003914.3	CT146	cyclin A1
CCNA2	NM_001237.2	CCNA, CCN1	cyclin A2
CCNB1	NM_031966.2	CCNB	cyclin B1
CCNB3	NM_033671.1		cyclin B3
CCND1	NM_053056.2	BCL1, D11S287E, PRAD1, U21B31	cyclin D1
CCND2	NM_001759.2		cyclin D2
CCND3	NM_001760.2		cyclin D3
CCNE1	NM_001238.1	CCNE	cyclin E1
CCNE2	NM_057735.1	CYCE2	cyclin E2
CCNO	NM_021147.3	CCNU, UDG2, FLJ22422, UNG2	cyclin O
CCR7	NM_001838.2	CMKBR7, EBI1, BLR2, CDw197, CD197	chemokine (C-C motif) receptor 7
CD14	NM_000591.2		CD14 molecule
CD19	NM_001770.4		CD19 molecule
CD40	NM_001250.4	TNFRSF5, p50, Bp50	CD40 molecule, TNF receptor superfamily member 5
CDC14A	NM_033313.2	Cdc14A1, Cdc14A2, cdc14	cell division cycle 14A
CDC14B	NM_003671.3	Cdc14B1, Cdc14B2, CDC14B3, hCDC14B	cell division cycle 14B
CDC25A	NM_001789.2		cell division cycle 25A
CDC25B	NM_021873.2		cell division cycle 25B
CDC25C	NM_001790.2	CDC25, PPP1R60	cell division cycle 25C
CDC6	NM_001254.3	CDC18L	cell division cycle 6
CDC7	NM_003503.2	CDC7L1, Hsk1, huCdc7, HsCdc7	cell division cycle 7
CDH1	NM_004360.2	UVO, uvomorulin, CD324	cadherin 1, type 1, E-cadherin (epithelial)
CDK2	NM_001798.2		cyclin-dependent kinase 2
CDK4	NM_000075.2	PSK-J3	cyclin-dependent kinase 4
CDK6	NM_001259.5	PLSTIRE	cyclin-dependent kinase 6
CDKN1A	NM_000389.2	CDKN1, P21, CIP1, WAF1, SDI1, CAP20, p21Cip1, p21Cip1/Waf1	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
CDKN1B	NM_004064.2	KIP1, P27KIP1	cyclin-dependent kinase inhibitor 1B (p27, Kip1)
CDKN1C	NM_000076.2	BWCR, BWS, P57, KIP2	cyclin-dependent kinase inhibitor 1C (p57, Kip2)
CDKN2A	NM_000077.3	CDKN2, MLM, CDK4I, p16, INK4a, MTS1, CMM2, ARF, p19, p14, INK4, p16INK4a, p19Arf	cyclin-dependent kinase inhibitor 2A
CDKN2B	NM_004936.3	P15, MTS2, INK4B, TP15, CDK4I, p15INK4b	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)
CDKN2C	NM_001262.2	INK4C, p18	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)
CDKN2D	NM_001800.3	INK4D, p19	cyclin-dependent kinase inhibitor 2D (p19, inhibits CDK4)
CEBPA	NM_004364.2	CEBP, C/EBP-alpha	CCAAT/enhancer binding protein (C/EBP), alpha
CEBPE	NM_001805.2	CRP1	CCAAT/enhancer binding protein (C/EBP), epsilon
CHAD	NM_001267.2	SLRR4A	chondroadherin
CHEK1	NM_00114121.1	CHK1	checkpoint kinase 1
CHEK2	NM_007194.3	RAD53, CDS1, CHK2, HuCds1, PP1425, ba444G7	checkpoint kinase 2
CHUK	NM_001278.3	IKK1, IKK-alpha, IkbKA, NFKBIKA, IKKA	conserved helix-loop-helix ubiquitous kinase
CIC	NM_015125.3	KIAA0306	capicua transcriptional repressor
CLCF1	NM_013246.2	NNT1, BSF3, CLC, NR6, CISS2, BSF-3, NNT-1	cardiotrophin-like cytokine factor 1
CNTFR	NM_147164.1		ciliary neurotrophic factor receptor
COL11A1	NM_001854.3	COLL6, STL2, CO11A1	collagen, type XI, alpha 1
COL11A2	NM_001163771.1	DFNA13, DFNBS3, HKE5	collagen, type XI, alpha 2
COL1A1	NM_000088.3	OI4	collagen, type I, alpha 1
COL1A2	NM_000089.3	OI4	collagen, type I, alpha 2
COL24A1	NM_152890.5		collagen, type XXIV, alpha 1
COL27A1	NM_032888.2	KIAA1870, MGC11337, FLJ11895	collagen, type XXVII, alpha 1
COL2A1	NM_001844.4	SEDC, AOM, STL1	collagen, type II, alpha 1
COL3A1	NM_000090.3	EDS4A	collagen, type III, alpha 1
COL4A3	NM_000091.3		collagen, type IV, alpha 3 (Goodpasture antigen)
COL4A4	NM_000092.4	CA44	collagen, type IV, alpha 4
COL4A5	NM_033381.1	ASLN, ATS	collagen, type IV, alpha 5
COL4A6	NM_001847.2		collagen, type IV, alpha 6
COL5A1	NM_000093.3		collagen, type V, alpha 1
COL5A2	NM_000393.3		collagen, type V, alpha 2
COL6A6	NM_001102608.1		collagen, type VI, alpha 6
COMP	NM_000095.2	PSACH, EDM1, EPD1, MED, THBS5	cartilage oligomeric matrix protein
CREB3L1	NM_052854.1	OASIS	cAMP responsive element binding protein 3-like 1
CREB3L3	NM_001271995.1	CREB-H	cAMP responsive element binding protein 3-like 3
CREB3L4	NM_130898.2	AlbZIP, CREB4, CREB3, hJAL, ATCE1	cAMP responsive element binding protein 3-like 4
CREB5	NM_182898.2	H_GS165L15.1, CRE-BPA	cAMP responsive element binding protein 5
CREBBP	NM_004380.2	RSTS, RTS, CBP, KAT3A	CREB binding protein
CRF2	NM_001012288.1	CRL2, TSLPR	cytokine receptor-like factor 2
CSF1R	NM_005211.2	FMS, C-FMS, CSFR, CD115	colony stimulating factor 1 receptor
CSF2	NM_000758.2	GM-CSF, GMCSF	colony stimulating factor 2 (granulocyte-macrophage)

CSF3	NM_000759.3	GCSF, G-CSF, C17orf33, MGC45931	colony stimulating factor 3 (granulocyte)
CSF3R	NM_156038.2	CD114, GCSFR	colony stimulating factor 3 receptor (granulocyte)
CTNNB1	NM_001904.3	CTNNB, beta-catenin, armadillo	catenin (cadherin-associated protein), beta 1, 88kDa
CUL1	NM_003592.2		cullin 1
CXXC4	NM_025212.1	IDAX	CXXC finger protein 4
CYLD	NM_015247.1	CYLD1, KIAA0849, USPL2	cylindromatosis (turban tumor syndrome)
DAXX	NM_001350.3	DAP6	death-domain associated protein
DDB2	NM_000107.1	DDBB, UV-DDB2, FLJ34321	damage-specific DNA binding protein 2, 48kDa
DDIT3	NM_004083.4	CHOP10, GADD153, CHOP	DNA-damage-inducible transcript 3
DDIT4	NM_019058.2	RTP801, FLJ20500, REDD-1, REDD1, Dig2	DNA-damage-inducible transcript 4
DKK1	NM_012242.2	SK, DKK-1	dickkopf WNT signaling pathway inhibitor 1
DKK2	NM_014421.2		dickkopf WNT signaling pathway inhibitor 2
DKK4	NM_014420.2		dickkopf WNT signaling pathway inhibitor 4
DLL1	NM_005618.3		delta-like 1 (Drosophila)
DLL3	NM_203486.2	SCDO1	delta-like 3 (Drosophila)
DLL4	NM_019074.2		delta-like 4 (Drosophila)
DNMT1	NM_001379.2	DNMT, MGMT, CXXC9	DNA (cytosine-5-)-methyltransferase 1
DNMT3A	NM_022552.3		DNA (cytosine-5-)-methyltransferase 3 alpha
DTX1	NM_004416.2	hDx-1	deltex 1, E3 ubiquitin ligase
DTX3	NM_178502.2	FLJ34766, RNF154	deltex 3, E3 ubiquitin ligase
DTX4	NM_015177.1	KIAA0937, RNF155	deltex 4, E3 ubiquitin ligase
DUSP10	NM_144728.2	MKP-5, MKP5	dual specificity phosphatase 10
DUSP2	NM_004418.3	PAC-1	dual specificity phosphatase 2
DUSP4	NM_057158.2	HVH2, MKP-2, TYP	dual specificity phosphatase 4
DUSP5	NM_004419.3	HVH3	dual specificity phosphatase 5
DUSP6	NM_001946.2	MKP-3, PYST1	dual specificity phosphatase 6
DUSP8	NM_004420.2	C11orf81, HVH-5, HB5, FLJ42958	dual specificity phosphatase 8
E2F1	NM_005225.1	RBBP3, RBP3	E2F transcription factor 1
E2F5	NM_001951.3		E2F transcription factor 5, p130-binding
EFNA1	NM_004428.2	TNFAIP4, EPLG1, LERK1, ECKLG	ephrin-A1
EFNA2	NM_001405.3	EPLG6, ELF-1, LERK6	ephrin-A2
EFNA3	NM_004952.4	EPLG3, LERK3, Ehk1-L	ephrin-A3
EFNA5	NM_001962.2	EPLG7, AF1, LERK7	ephrin-A5
EGF	NM_001963.3		epidermal growth factor
EGFR	NM_201282.1	ERBB, ERBB1	epidermal growth factor receptor
EIF4EBP1	NM_004095.3	PHAS-I, 4E-BP1	eukaryotic translation initiation factor 4E binding protein 1
ENDO G	NM_004435.2		endonuclease G
EP300	NM_001429.2	p300, KAT3B	E1A binding protein p300
EPHA2	NM_004431.2	ECK	EPH receptor A2
EPO	NM_000799.2	EP	erythropoietin
EPOR	NM_000121.2		erythropoietin receptor
ERBB2	NM_004448.2	NGL, NEU, HER-2, CD340, HER2	v-erb-b2 avian erythroblastic leukemia viral oncogene homolog 2
ERCC2	NM_000400.2	XPD, MAG, EM9, MGC102762, MGC126218, MGC126219	excision repair cross-complementing rodent repair deficiency, complementation group 2
ERCC6	NM_000124.2	CKN2, CSB, RAD26, ARMD5	excision repair cross-complementing rodent repair deficiency, complementation group 6
ETS2	NM_005239.4		v-ets avian erythroblastosis virus E26 oncogene homolog 2
ETV1	NM_004956.4	ER81	ets variant 1
ETV4	NM_001079675.1	E1A-F, E1AF	ets variant 4
ETV7	NM_016135.2	TEL2, TEL-2	ets variant 7
EYA1	NM_172059.2	BOR	eyes absent homolog 1 (Drosophila)
EZH2	NM_004456.3	EZH1, ENX-1, KMT6, KMT6A	enhancer of zeste homolog 2 (Drosophila)
FANCA	NM_000135.2	FACA, FANCH, FAA, FA-H, FAH	Fanconi anemia, complementation group A
FANCB	NM_152633.2	FAB, FLJ34064, FAAP95	Fanconi anemia, complementation group B
FANCC	NM_000136.2	FACC, FAC, FA3	Fanconi anemia, complementation group C
FANCE	NM_021922.2	FACE, FAE	Fanconi anemia, complementation group E
FANCF	NM_022725.2	FAF	Fanconi anemia, complementation group F
FANCG	NM_004629.1	XRCC9, FAG	Fanconi anemia, complementation group G
FANCL	NM_001114636.1	PHF9, FLJ10335, FAAP43, Pog	Fanconi anemia, complementation group L
FAS	NM_152876.1	FAS1, APT1, TNFRSF6, CD95, APO-1	Fas cell surface death receptor
FASLG	NM_000639.1	APT1LG1, TNFSF6, FasL, CD178	Fas ligand (TNF superfamily, member 6)
FBXW7	NM_018315.4	AGO, FLJ11071, SEL-10, SEL10, FBW7, FBX30, CDC4, FBXW6	F-box and WD repeat domain containing 7, E3 ubiquitin protein ligase
FEN1	NM_004111.4	RAD2, FEN-1, MF1	flap structure-specific endonuclease 1
FGF1	NM_033137.1	FGFA, AFGF, ECGF, ECGFA, ECGFB, HBGFB1, ECGF-beta, FGF-alpha, GLIO703	fibroblast growth factor 1 (acidic)
FGF10	NM_004465.1		fibroblast growth factor 10
FGF11	NM_004112.2	FHF3, FLJ16061, MGC45269, MGC102953	fibroblast growth factor 11
FGF12	NM_004113.4	FGF12B, FHF1	fibroblast growth factor 12
FGF13	NM_033642.1	FHF2, FGF2	fibroblast growth factor 13
FGF14	NM_004115.3	FHF4, SCA27	fibroblast growth factor 14
FGF16	NM_003868.1		fibroblast growth factor 16
FGF17	NM_003867.2	FGF-13	fibroblast growth factor 17
FGF18	NM_003862.1	FGF-18, ZFGF5	fibroblast growth factor 18
FGF19	NM_005117.2		fibroblast growth factor 19
FGF2	NM_002006.4	FGFB	fibroblast growth factor 2 (basic)
FGF20	NM_019851.1		fibroblast growth factor 20
FGF21	NM_019113.2		fibroblast growth factor 21
FGF22	NM_020637.1		fibroblast growth factor 22
FGF23	NM_020638.2		fibroblast growth factor 23
FGF3	NM_005247.2	INT2, HBGF-3	fibroblast growth factor 3
FGF4	NM_002007.2	HSTF1, K-FGF, HBGF-4, HST, HST-1, KFGF	fibroblast growth factor 4
FGF5	NM_004464.3		fibroblast growth factor 5
FGF6	NM_020996.1		fibroblast growth factor 6
FGF7	NM_002009.3	KGF	fibroblast growth factor 7

FGF8	NM_033163.3	AIGF	fibroblast growth factor 8 (androgen-induced)
FGF9	NM_002010.2		fibroblast growth factor 9
FGFR1	NM_015850.2	FLT2, KAL2, H2, H3, H4, H5, CEK, FLG, BFGFR, N-SAM, CD331	fibroblast growth factor receptor 1
FGFR2	NM_000141.4	KTGF, BEK, CFD1, JWS, CEK3, TK14, TK25, ECT1, K-SAM, CD332	fibroblast growth factor receptor 2
FGFR3	NM_022965.2	ACH, CEK2, JTK4, CD333	fibroblast growth factor receptor 3
FGFR4	NM_002011.3	JTK2, CD334	fibroblast growth factor receptor 4
FIGF	NM_004469.2	VEGFD, VEGF-D	c-fos induced growth factor (vascular endothelial growth factor D)
FLNA	NM_001456.3	FLN1, FLN, OPD2, OPD1, ABP-280	filamin A, alpha
FLNC	NM_001127487.1	FLN2, ABP-280, ABPL	filamin C, gamma
FLT1	NM_002019.4	FLT, VEGFR1	fms-related tyrosine kinase 1
FLT3	NM_004119.1	STK1, FLK2, CD135	fms-related tyrosine kinase 3
FN1	NM_212482.1	MSF, CIG, LETS, GFND2, FINC	fibronectin 1
FOS	NM_005252.2	c-fos, AP-1	FBJ murine osteosarcoma viral oncogene homolog
FOSL1	NM_005438.2	fra-1	FOS-like antigen 1
FOXL2	NM_023067.2	BPES, BPES1	forkhead box L2
FOXO4	NM_005938.2	MLLT7, AFX1	forkhead box O4
FST	NM_006350.2	FS	follicle-stimulating hormone receptor
FUBP1	NM_003902.3	FUBP, FBP	far upstream element (FUSE) binding protein 1
FUT8	NM_004480.4		fucosyltransferase 8 (alpha (1,6) fucosyltransferase)
FZD10	NM_007197.2	CD350	frizzled family receptor 10
FZD2	NM_001466.2		frizzled family receptor 2
FZD3	NM_017412.2		frizzled family receptor 3
FZD7	NM_003507.1	FzE3	frizzled family receptor 7
FZD8	NM_031866.1		frizzled family receptor 8
FZD9	NM_003508.2	FZD3, CD349	frizzled family receptor 9
GADD45A	NM_001924.2	DDIT1, GADD45	growth arrest and DNA-damage-inducible, alpha
GADD45B	NM_015675.2	MYD118, GADD45BETA, DKFZP566B133	growth arrest and DNA-damage-inducible, beta
GADD45G	NM_006705.3	DDIT2, GADD45gamma, GRP17, CR6	growth arrest and DNA-damage-inducible, gamma
GAS1	NM_002048.2		growth arrest-specific 1
GATA1	NM_002049.2	GF1, ERYF1, NFE1, GATA-1, NF-E1	GATA binding protein 1 (globin transcription factor 1)
GATA2	NM_032638.3	NFE1B	GATA binding protein 2
GATA3	NM_001002295.1	HDR	GATA binding protein 3
GDF6	NM_001001557.2	BMP13	growth differentiation factor 6
GHR	NM_000163.2	GHP	growth hormone receptor
GLI1	NM_005269.1	GLI	GLI family zinc finger 1
GLI3	NM_000168.5	GCPS, PHS, PAP-A, PAPA, PAPA1, PAPB, ACLS, PPDIV	GLI family zinc finger 3
GNA11	NM_002067.1		guanine nucleotide binding protein (G protein), alpha 11 (Gq class)
GNAQ	NM_002072.2	G-ALPHA-q, GAQ	guanine nucleotide binding protein (G protein), q polypeptide
GNAS	NM_080425.1	GNAS1, NESP55, NESP, GNASXL, GP5A, SCG6	GNAS complex locus
GNNG12	NM_018841.3		guanine nucleotide binding protein (G protein), gamma 12
GNG4	NM_004485.2		guanine nucleotide binding protein (G protein), gamma 4
GNG7	NM_052847.1	FLJ00058	guanine nucleotide binding protein (G protein), gamma 7
GNGT1	NM_021955.3	GNG1	guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 1
GPC4	NM_001448.2	K-glypican	glypican 4
GRB2	NM_002086.4	NCKAP2	growth factor receptor-bound protein 2
GRIA3	NM_000828.4	GLUR3, GluA3, GLURC, MRX94	glutamate receptor, ionotropic, AMPA 3
GRIN1	NM_000832.5	NMDAR1, GluN1	glutamate receptor, ionotropic, N-methyl D-aspartate 1
GRIN2A	NM_000833.3	NMDAR2A, GluN2A	glutamate receptor, ionotropic, N-methyl D-aspartate 2A
GRIN2B	NM_000834.3	NMDAR2B, GluN2B	glutamate receptor, ionotropic, N-methyl D-aspartate 2B
GSK3B	NM_002093.2		glycogen synthase kinase 3 beta
GTF2H3	NM_001516.3	BTf2, TFIIH, P34	general transcription factor IIH, polypeptide 3, 34kDa
GZMB	NM_004131.3	CTSL1, HLP, SECT	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
H2AFX	NM_002105.2	H2AX	H2A histone family, member X
H3F3A	NM_002107.3	H3F3, H3.3A	H3 histone, family 3A
H3F3C	NM_001013699.2	H3.5	H3 histone, family 3C
HDAC1	NM_004964.2	RPD3L1, HD1, GON-10	histone deacetylase 1
HDAC10	NM_032019.5	DKFZP761B039	histone deacetylase 10
HDAC11	NM_024827.3		histone deacetylase 11
HDAC2	NM_001527.1	RPD3, YAF1	histone deacetylase 2
HDAC4	NM_006037.3	KIAA0288, HDAC-A, HDACA, HD4, HA6116, HDAC-4	histone deacetylase 4
HDAC5	NM_005474.4	KIAA0600, NY-CO-9, FLJ90614	histone deacetylase 5
HDAC6	NM_006044.2	KIAA0901, JM21, HD6, FLJ16239	histone deacetylase 6
HELLS	NM_018063.3	PASG, SMARCA6, LSH, Nbla10143	helicase, lymphoid-specific
HES1	NM_005524.2	HRY, FLJ20408, HES-1, Hes1, bHLHb39	hes family bHLH transcription factor 1
HES5	NM_001010926.3	bHLHb38	hes family bHLH transcription factor 5
HGF	NM_000601.4	DFNB39, SF, F-TCF, HGFB, HPTA	hepatocyte growth factor (hepatoietin A; scatter factor)
HHEX	NM_002729.4	PRHX, HEX, HOX11L-PEN	hematopoietically expressed homeobox
HHIP	NM_022475.1	HIP, FLJ20992	hedgehog interacting protein
HIST1H3B	NM_003537.3	H3FL, H3/I	histone cluster 1, H3b
HIST1H3G	NM_003534.2	H3FH, H3/h	histone cluster 1, H3g
HIST1H3H	NM_003536.2	H3FK, H3/k, H3F1K	histone cluster 1, H3h
HMGA1	NM_145904.1	HMG1Y	high mobility group AT-hook 1
HMGA2	NM_003484.1	HMGIC, BABL, LIPO	high mobility group AT-hook 2
HNF1A	NM_000545.4	MODY3, TCF1, HNF1, LFB1	HNF1 homeobox A
HOXA10	NM_018951.3	HOX1H, HOX1	homeobox A10
HOXA11	NM_005523.5	HOX1I, HOX1	homeobox A11
HOXA9	NM_152739.3	HOX1G, HOX1	homeobox A9
HPGD	NM_001145816.2	SDR36C1	hydroxyprostaglandin dehydrogenase 15-(NAD)
HRAS	NM_005343.2	HRAS1	Harvey rat sarcoma viral oncogene homolog

HSP90B1	NM_003299.1	TRA1, GP96, GRP94	heat shock protein 90kDa beta (Grp94), member 1
HSPA1A	NM_005345.5	HSPA1, HSP70-1	heat shock 70kDa protein 1A
HSPA2	NM_021979.3		heat shock 70kDa protein 2
HSPA6	NM_002155.3		heat shock 70kDa protein 6 (HSP70B')
HSPB1	NM_001540.3	HSP27, HSP28, Hs.76067, Hsp25	heat shock 27kDa protein 1
IBSP	NM_004967.3	BSP, SP-II, BSP-II	integrin-binding sialoprotein
ID1	NM_002165.2	dI857M17.1.2, bHLHb24	inhibitor of DNA binding 1, dominant negative helix-loop-helix protein
ID2	NM_002166.4	GIG8, bHLHb26	inhibitor of DNA binding 2, dominant negative helix-loop-helix protein
ID4	NM_001546.2	bHLHb27	inhibitor of DNA binding 4, dominant negative helix-loop-helix protein
IDH1	NM_005896.2		isocitrate dehydrogenase 1 (NADP+), soluble
IDH2	NM_002168.2		isocitrate dehydrogenase 2 (NADP+), mitochondrial
IFNA17	NM_021268.2	LEIF2C1, IFN-alphaI	interferon, alpha 17
IFNA2	NM_000605.3	IFNA, IFN-alphaA	interferon, alpha 2
IFNA7	NM_021057.2	IFNA-J, IFN-alphaJ	interferon, alpha 7
IFNG	NM_000619.2		interferon, gamma
IGF1	NM_000618.3	IGF1A	insulin-like growth factor 1 (somatomedin C)
IGF1R	NM_000875.2	JTK13, CD221, IGFIR, MGC18216, IGFR	insulin-like growth factor 1 receptor
IGFBP3	NM_000598.4	IBP3, BP-53	insulin-like growth factor binding protein 3
IKKB	NM_001556.1	IKK2, NFKBKB, IKK-beta, IKKB	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
IKKBG	NM_003639.2	IP2, IP1, IKK-gamma, NEMO, Fip3p, FIP-3, FIP3, ZC2HC9	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma
IL10	NM_000572.2	CSIF, TGIF, IL10A, IL-10	interleukin 10
IL11	NM_000641.2	IL-11, AGIF	interleukin 11
IL11RA	NM_147162.1		interleukin 11 receptor, alpha
IL12A	NM_000882.2	NKSF1, CLMF, IL-12A, p35, NFSK	interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)
IL12B	NM_002187.2	NKSF2, CLMF, IL-12B, NKSF, CLMF2	interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)
IL12RB2	NM_001559.2		interleukin 12 receptor, beta 2
IL13	NM_002188.2	P600, IL-13, ALRH, BHR1, MGC116786, MGC116788, MGC116789	interleukin 13
IL13RA2	NM_000640.2	IL-13R, IL13BP, CD213a2, CT19	interleukin 13 receptor, alpha 2
IL15	NM_172174.1	IL-15, MGC9721	interleukin 15
IL19	NM_013371.3	IL-19, MDA1, ZMDA1, IL-10C, NG.1	interleukin 19
IL1A	NM_000575.3	IL1, IL1F1, IL-1A, IL1-ALPHA	interleukin 1, alpha
IL1B	NM_000576.2	IL1F2, IL-1B, IL1-BETA	interleukin 1, beta
IL1R1	NM_000877.2	IL1R, IL1RA, D2S1473, CD121A	interleukin 1 receptor, type I
IL1R2	NM_173343.1	IL1RB, CD121b	interleukin 1 receptor, type II
IL1RAP	NM_002182.2	IL-1RAcP, IL1R3, C3orf13	interleukin 1 receptor accessory protein
IL20RA	NM_014432.2	ZCYTOR7, IL-20R1	interleukin 20 receptor, alpha
IL20RB	NM_144717.2	FNDC6, DIRS1, IL-20R2, MGC34923	interleukin 20 receptor beta
IL22RA1	NM_021258.2	IL22R, CRF2-9	interleukin 22 receptor, alpha 1
IL22RA2	NM_181309.1	CRF2-S1, IL-22BP	interleukin 22 receptor, alpha 2
IL23A	NM_016584.2	SGRF, IL23P19, IL-23, IL-23A, P19	interleukin 23, alpha subunit p19
IL23R	NM_144701.2	IL-23R	interleukin 23 receptor
IL24	NM_181339.1	ST16, mda-7, IL10B, Mob-5, C49A, FISP, IL-24	interleukin 24
IL2RA	NM_000417.1	IL2R, CD25	interleukin 2 receptor, alpha
IL2RB	NM_000878.2	IL15RB, CD122	interleukin 2 receptor, beta
IL3	NM_000588.3	IL-3, MULTI-CSF, MCGF, MGC79398, MGC79399	interleukin 3 (colony-stimulating factor, multiple)
IL3RA	NM_002183.2	CD123	interleukin 3 receptor, alpha (low affinity)
IL5RA	NM_000564.3	IL5R, CDw125, CD125	interleukin 5 receptor, alpha
IL6	NM_000600.1	IFN2, IL-6, BSF2, HGF, HSF	interleukin 6 (interferon, beta 2)
IL6R	NM_000565.2	CD126	interleukin 6 receptor
IL7	NM_000880.2	IL-7	interleukin 7
IL7R	NM_002185.2	CD127	interleukin 7 receptor
IL8	NM_000584.2	SCYB8, LUCT, LECT, MDNCF, TSG-1, CXCL8, IL-8, NAP-1, 3-10C, MONAP, AMCF-I, LYNAP, NAF, b-ENAP, GCP-1, K60, GCP1, NAP1	interleukin 8
INHBA	NM_002192.2		inhibin, beta A
INHBB	NM_002193.2		inhibin, beta B
IRAK2	NM_001570.3		interleukin-1 receptor-associated kinase 2
IRAK3	NM_007199.1	IRAK-M	interleukin-1 receptor-associated kinase 3
IRS1	NM_005544.2	HIRS-1	insulin receptor substrate 1
ITGA2	NM_002203.2	CD49B, CD49b	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)
ITGA3	NM_005501.2	MSK18, CD49c, VLA3a, VCA-2, GAP-B3	integrin, alpha 3 (antigen CD49C, alpha 3 subunit of VLA-3 receptor)
ITGA6	NM_000210.1	CD49f	integrin, alpha 6
ITGA7	NM_002206.1		integrin, alpha 7
ITGA8	NM_003638.1		integrin, alpha 8
ITGA9	NM_002207.2	RLC, ITGA4L, ALPHA-RLC	integrin, alpha 9
ITGB3	NM_000212.2	GP3A, CD61, GPIIb	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)
ITGB4	NM_001005731.1	CD104	integrin, beta 4
ITGB6	NM_001282353.1		integrin, beta 6
ITGB7	NM_000889.1		integrin, beta 7
ITGB8	NM_002214.2		integrin, beta 8
JAG1	NM_000214.2	AGS, JAGL1, AHD, AWS, HJ1, CD339	jagged 1
JAG2	NM_145159.1		jagged 2
JAK1	NM_002227.1	JAK1B, JAK1A, JTK3	Janus kinase 1
JAK2	NM_004972.2	JTK10	Janus kinase 2
JAK3	NM_000215.2	L-JAK, JAKL, LJAK, JAK3_HUMAN, JAK-3	Janus kinase 3
JUN	NM_002228.3	c-Jun, AP-1	jun proto-oncogene
KAT2B	NM_003884.3	PCAF, P/CAF, GCN5, GCN5L	K(lysine) acetyltransferase 2B
KDM5C	NM_004187.2	SMCX, JARID1C, DXS1272E, XE169	lysine (K)-specific demethylase 5C
KDM6A	NM_021140.2	UTX	lysine (K)-specific demethylase 6A
KIT	NM_000222.1	PBT, CD117, SCFR, C-Kit	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog

KITLG	NM_003994.4	MGF, SCF, SF, Kitl, KL-1, FPH2	KIT ligand
KLF4	NM_004235.4	EZF, GKLF	Kruppel-like factor 4 (gut)
KMT2C	NM_170606.2	MLL3, KIAA1506, HALR	lysine (K)-specific methyltransferase 2C
KMT2D	NM_003482.3	TNRC21, MLL2, ALR, MLL4, CAGL114	lysine (K)-specific methyltransferase 2D
KRAS	NM_004985.3	KRAS2, KRAS1	Kirsten rat sarcoma viral oncogene homolog
LAMA1	NM_005559.2	LAMA	laminin, alpha 1
LAMA3	NM_000227.3	LAMNA, nicein-150kDa, kalinin-165kDa, BM600-150kDa, epiligrin	laminin, alpha 3
LAMA5	NM_005560.3		laminin, alpha 5
LAMB3	NM_000228.2	LAMNB1, nicein-125kDa, kalinin-140kDa, BM600-125kDa	laminin, beta 3
LAMB4	NM_007356.2		laminin, beta 4
LAMC2	NM_005562.2	EBR2, LAMB2T, LAMNB2, EBR2A, nicein-100kDa, kalinin-105kDa, BM600-100kDa	laminin, gamma 2
LAMC3	NM_006059.3	DKFZp434E202	laminin, gamma 3
LAT	NM_001014987.1	LAT1	linker for activation of T cells
LEF1	NM_016269.3	TCF1ALPHA, TCF10, TCF7L3	lymphoid enhancer-binding factor 1
LEFTY1	NM_020997.2	LEFTB, LEFTYB	left-right determination factor 1
LEFTY2	NM_003240.2	TGFB4, EBAF, LEFTA, LEFTYA	left-right determination factor 2
LEP	NM_000230.2	OBS, OB	leptin
LEPR	NM_001003679.1	OBR, CD295	leptin receptor
LFNG	NM_001040168.1	SCDO3	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
LIF	NM_002309.3	CDF, DIA, HILDA	leukemia inhibitory factor
LIFR	NM_002310.3	CD118	leukemia inhibitory factor receptor alpha
LIG4	NM_002312.3		ligase IV, DNA, ATP-dependent
LRP2	NM_004525.2	gp330, DBS	low density lipoprotein receptor-related protein 2
LTBP1	NM_000627.3		latent transforming growth factor beta binding protein 1
MAD2L2	NM_001127325.1	MAD2B, REV7, POLZ2	MAD2 mitotic arrest deficient-like 2 (yeast)
MAML2	NM_032427.1	KIAA1819, MAM3	mastermind-like 2 (Drosophila)
MAP2K1	NM_002755.2	PRKM1, MEK1, MAPKK1	mitogen-activated protein kinase kinase 1
MAP2K2	NM_030662.2	PRKM2, MEK2	mitogen-activated protein kinase kinase 2
MAP2K4	NM_003010.2	SERK1, MEK4, JNKK1, PRMK4, MKK4	mitogen-activated protein kinase kinase 4
MAP2K6	NM_002758.3	PRKM6, MEK6, MKK6, SAPKK3, MAPKK6	mitogen-activated protein kinase kinase 6
MAP3K1	NM_005921.1	MEK11, MEKK, MAPKKK1	mitogen-activated protein kinase kinase kinase 1, E3 ubiquitin protein ligase
MAP3K12	NM_006301.2	ZPK, MUK, DLK, ZPKP1, MEKK12	mitogen-activated protein kinase kinase kinase 12
MAP3K13	NM_004721.3	LZK, MEKK13	mitogen-activated protein kinase kinase kinase 13
MAP3K14	NM_003954.1	NIK, HSNIK, FTDCR1B, HS	mitogen-activated protein kinase kinase kinase 14
MAP3K5	NM_005923.3	MEKKS, MAPKKK5, ASK1	mitogen-activated protein kinase kinase kinase 5
MAP3K8	NM_005204.2	COT, ESTF, Tpl-2, EST, c-COT, MEKK8	mitogen-activated protein kinase kinase kinase 8
MAPK1	NM_138957.2	PRKM2, PRKM1, ERK, ERK2, p41mapk, MAPK2	mitogen-activated protein kinase 1
MAPK10	NM_002753.2	PRKM10, JNK3, p493F12, p54bSAPK	mitogen-activated protein kinase 10
MAPK12	NM_002969.3	SAPK3, ERK6, PRKM12, p38gamma, SAPK-3	mitogen-activated protein kinase 12
MAPK3	NM_001040056.1	PRKM3, ERK1, p44mapk, p44erk1	mitogen-activated protein kinase 3
MAPK8	NM_002750.2	PRKM8, JNK, JNK1, SAPK1	mitogen-activated protein kinase 8
MAPK8IP1	NM_005456.2	PRKM8IP, IB1, JIP-1, JIP1	mitogen-activated protein kinase 8 interacting protein 1
MAPK8IP2	NM_012324.2	PRKM8IP, IB2, JIP2	mitogen-activated protein kinase 8 interacting protein 2
MAPK9	NM_139068.2	PRKM9, JNK2, p54a, SAPK	mitogen-activated protein kinase 9
MAPT	NM_016834.3	DDPAC, MAPTL, MTBT1, tau, PPND, FTDP-17, TAU, MSTD, MTBT2, FLJ31424, MGC138549	microtubule-associated protein tau
MCM2	NM_004526.2	CCNL1, CDCL1, D3S3194, KIAA0030, BM28, cdc19	minichromosome maintenance complex component 2
MCM4	NM_182746.1	CDC21, CDC54, hCdc21, P1-Cdc21, MGC33310	minichromosome maintenance complex component 4
MCM5	NM_006739.3	CDC46	minichromosome maintenance complex component 5
MCM7	NM_182776.1	MCM2, CDC47	minichromosome maintenance complex component 7
MDC1	NM_014641.2	NFBD1, KIAA0170, Em:AB023051.5	mediator of DNA-damage checkpoint 1
MDM2	NM_006878.2	HDM2, HDMX, MGC5370	MDM2 oncogene, E3 ubiquitin protein ligase
MECOM	NM_005241.2	MDS1, EVI1, MDS1-EVI1, PRDM3, TNRC11, FGS1, CAGH45, HOPA, OPA1, TRAP230, KIAA0192, OKS	MDS1 and EVI1 complex locus
MED12	NM_005120.2		mediator complex subunit 12
MEN1	NM_130802.2		multiple endocrine neoplasia I
MET	NM_000245.2	HGFR, RCCP2	met proto-oncogene
MFNG	NM_002405.2		MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
MGMT	NM_002412.3		O-6-methylguanine-DNA methyltransferase
MLF1	NM_022443.3		myeloid leukemia factor 1
MLH1	NM_000249.2	COCA2, HNPCC, FCC2, HNPCC2	mutL homolog 1
MLLT3	NM_004529.2	AF-9, AF9, YEATS3	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 3
MLLT4	NM_005936.2	AF-6, AF6	myeloid/lymphoid or mixed-lineage leukemia (trithorax homolog, Drosophila); translocated to, 4
MMP3	NM_002422.3	STMY1, STMY	matrix metalloproteinase 3 (stromelysin 1, progelatinase)
MMP7	NM_002423.3	MPSL1, PUMP-1	matrix metalloproteinase 7 (matrilysin, uterine)
MMP9	NM_004994.2	CLG4B	matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)
MNAT1	NM_002431.2	MAT1, RNF66	MNAT CDK-activating kinase assembly factor 1
MPL	NM_005373.2	CD110, TPOR	myeloproliferative leukemia virus oncogene
MPO	NM_000250.1		myeloperoxidase
MSH2	NM_000251.1	COCA1, HNPCC, HNPCC1	mutS homolog 2
MSH6	NM_000179.1	GTBP	mutS homolog 6
MTOR	NM_004958.2	FRAP, FRAP2, FRAP1, RAFT1, RAPT1, FLJ44809	mechanistic target of rapamycin (serine/threonine kinase)
MUTYH	NM_012222.2	MYH	mutY homolog
MYB	NM_005375.2	c-myb	v-myb avian myeloblastosis viral oncogene homolog
MYC	NM_002467.3	c-Myc, bHLHe39, MYCC	v-myc avian myelocytomatosis viral oncogene homolog
MYCN	NM_005378.4	NMYC, bHLHe37, N-myc, MYCNOT	v-myc avian myelocytomatosis viral oncogene neuroblastoma derived homolog

MYD88	NM_002468.3		myeloid differentiation primary response 88
NASP	NM_172164.1	FLB7527, FLJ31599, FLJ35510, MGC19722, MGC20372, MGC2297, DKFZp547F162, PRO1999	nuclear autoantigenic sperm protein (histone-binding)
NBN	NM_001024688.1	NBS, NBS1, ATV, AT-V2, AT-V1	nibrin
NCOR1	NM_006311.3	N-CoR, hCITS29I10, TRAC1, hN-CoR, KIAA1047, MGC104216	nuclear receptor corepressor 1
NF1	NM_000267.2		neurofibromin 1
NF2	NM_181828.2	merlin	neurofibromin 2 (merlin)
NFATC1	NM_172389.1	NF-ATC, NFATc, NFAT2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1
NFE2L2	NM_006164.3	NRF2	nuclear factor, erythroid 2-like 2
NFKB1	NM_003998.2	KBF1, p105, NFKB-p50, p50, NF-kappaB, NFKappaB, NF-kB1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
NFKBIA	NM_020529.1	NFKBI, IKBA, MAD-3, IkappaBalph	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
NFKBIZ	NM_001005474.1	MAIL, FLJ34463, INAP	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta
NGF	NM_002506.2	NGFB	nerve growth factor (beta polypeptide)
NGFR	NM_002507.1	TNFRSF16, CD271, p75NTR	nerve growth factor receptor
NKD1	NM_033119.3		naked cuticle homolog 1 (Drosophila)
NODAL	NM_018055.3		nodal growth differentiation factor
NOG	NM_005450.4	SYNS1, SYM1	noggin
NOS3	NM_000603.4	ECNOS, eNOS	nitric oxide synthase 3 (endothelial cell)
NOTCH1	NM_017617.3	TAN1	notch 1
NOTCH2	NM_024408.3		notch 2
NOTCH3	NM_000435.2	CADASIL, CASIL	notch 3
NPM1	NM_002520.5	B23, NPM	nucleophosmin (nucleolar phosphoprotein B23, numatrin)
NPM2	NM_182795.1		nucleophosmin/nucleoplamin 2
NR4A1	NM_173157.1	HMR, GFRP1, TR3, N10, NAK-1, NGFIB, NUR77	nuclear receptor subfamily 4, group A, member 1
NR4A3	NM_173198.1	CSMF, CHN, NOR1, MINOR	nuclear receptor subfamily 4, group A, member 3
NRAS	NM_002524.3	N-ras	neuroblastoma RAS viral (v-ras) oncogene homolog
NSD1	NM_022455.4	STO, ARA267, FLJ22263, KMT3B	nuclear receptor binding SET domain protein 1
NTF3	NM_002527.4	NGF2	neurotrophin 3
NTHL1	NM_002528.5	NTH1, OCTS3	nth endonuclease III-like 1 (E. coli)
NTRK1	NM_001012331.1	TRK, TRKA, MTC	neurotrophic tyrosine kinase, receptor, type 1
NTRK2	NM_001007097.1	TRKB	neurotrophic tyrosine kinase, receptor, type 2
NUMBL	NM_004756.3	NUMB-R, CTG3a, CAG3A, TNRC23, NUMBR, NUMBLIKE	numb homolog (Drosophila)-like
NUPR1	NM_001042483.1	COM1, p8	nuclear protein, transcriptional regulator, 1
OSM	NM_020530.3	MGC20461	oncostatin M
PAK3	NM_002578.2	MRX30, MRX47, hPAK3, bPAK	p21 protein (Cdc42/Rac)-activated kinase 3
PAK7	NM_177990.1	KIAA1264, PAK5	p21 protein (Cdc42/Rac)-activated kinase 7
PAX3	NM_013942.3	WS1, HUP2	paired box 3
PAX5	NM_016734.1	BSAP	paired box 5
PAX8	NM_013953.3		paired box 8
PBRM1	NM_181042.3	BAF180, PB1	polybromo 1
PBX1	NM_002585.2		pre-B-cell leukemia homeobox 1
PBX3	NM_006195.5		pre-B-cell leukemia homeobox 3
PCK1	NM_002591.2	PEPCK-C	phosphoenolpyruvate carboxykinase 1 (soluble)
PCNA	NM_002592.2		proliferating cell nuclear antigen
PDGFA	NM_002607.5	PDGFA, PDGF-A	platelet-derived growth factor alpha polypeptide
PDGFB	NM_033016.2	SIS, SSV	platelet-derived growth factor beta polypeptide
PDGFC	NM_016205.1	SCDGF, fallotein	platelet derived growth factor C
PDGFD	NM_025208.4	SCDGF-B, MSTP036, IEGF	platelet derived growth factor D
PDGFRA	NM_006206.3	CD140a, PDGFR2	platelet-derived growth factor receptor, alpha polypeptide
PDGFRB	NM_002609.3	PDGFR, JTK12, CD140b, PDGFR1	platelet-derived growth factor receptor, beta polypeptide
PGF	NM_002632.5	PGFL, PLGF, PIGF-2, PIGF, SHGC-10760, D12S1900	placental growth factor
PHF6	NM_032335.3	BFLS, BORJ, KIAA1823, MGC14797, CENP-31	PHD finger protein 6
PI3KA	NM_006218.2	PI3K	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha
PI3KB	NM_006219.1	PI3K1	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta
PI3CD	NM_005026.3	p110D	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit delta
PI3CG	NM_002649.2		phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit gamma
PI3R1	NM_181504.2	GRB1, p85-ALPHA, p85	phosphoinositide-3-kinase, regulatory subunit 1 (alpha)
PI3R2	NM_005027.2	P85B, p85	phosphoinositide-3-kinase, regulatory subunit 2 (beta)
PI3R3	NM_003629.3	p55	phosphoinositide-3-kinase, regulatory subunit 3 (gamma)
PI3R5	NM_001142633.1	P101-PI3K, p101	phosphoinositide-3-kinase, regulatory subunit 5
PIM1	NM_002648.2	PIM	pim-1 oncogene
PITX2	NM_000325.5	IRID2, IHG2, RIEG, RIEG1, RGS, IGDS, RS, Brx1, Otlx2, ARP1	paired-like homeodomain 2
PKMYT1	NM_004203.3	MYT1	protein kinase, membrane associated tyrosine/threonine 1
PLA1A	NM_015900.2	ps-PLA1	phospholipase A1 member A
PLA2G10	NM_003561.1	GXPLA2	phospholipase A2, group X
PLA2G2A	NM_000300.2	PLA2B, PLA2L	phospholipase A2, group IIA (platelets, synovial fluid)
PLA2G3	NM_015715.3	GIII-SPLA2	phospholipase A2, group III
PLA2G4A	NM_024420.2	PLA2G4, cPLA2-alpha	phospholipase A2, group IVA (cytosolic, calcium-dependent)
PLA2G4C	NM_003706.2	cPLA2-gamma	phospholipase A2, group IVC (cytosolic, calcium-independent)
PLA2G4E	NM_001206670.1	FLJ45651	phospholipase A2, group IVE
PLA2G4F	NM_213600.2	PLA2G4F/Z	phospholipase A2, group IVF
PLA2G5	NM_000929.2		phospholipase A2, group V
PLAT	NM_000931.2		plasminogen activator, tissue
PLAU	NM_002658.2	URK, UPA	plasminogen activator, urokinase
PLCB1	NM_182734.1	KIAA0581, PLC-1, PLC154	phospholipase C, beta 1 (phosphoinositide-specific)
PLCB4	NM_000933.3		phospholipase C, beta 4
PLCE1	NM_001165979.1	KIAA1516, PLCE, NPHS3	phospholipase C, epsilon 1

PLCG2	NM_002661.2		phospholipase C, gamma 2 (phosphatidylinositol-specific)
PLD1	NM_002662.3		phospholipase D1, phosphatidylcholine-specific
PML	NM_002675.3	MYL, TRIM19, RNF71	promyelocytic leukemia
POLB	NM_002690.1		polymerase (DNA directed), beta
POLD1	NM_002691.2	POLD, CDC2	polymerase (DNA directed), delta 1, catalytic subunit
POLD4	NM_021173.2	p12, POLDS	polymerase (DNA-directed), delta 4, accessory subunit
POLE2	NM_002692.2	DPE2	polymerase (DNA directed), epsilon 2, accessory subunit
POLR2D	NM_004805.3	RBP4	polymerase (RNA) II (DNA directed) polypeptide D
POLR2H	NM_001278698.1	RPB8	polymerase (RNA) II (DNA directed) polypeptide H
POLR2J	NM_006234.4	RPB11, hRPB14, RPB11A, RPB11m, POLR2J1	polymerase (RNA) II (DNA directed) polypeptide J, 13.3kDa
PPARG	NM_015869.3	PPARG1, PPARG2, NR1C3, PPARGgamma	peroxisome proliferator-activated receptor gamma
PPARGC1A	NM_013261.3	PPARGC1, PGC1, PGC1A	peroxisome proliferator-activated receptor gamma, coactivator 1 alpha
PPP2CB	NM_001009552.1	PP2Abeta	protein phosphatase 2, catalytic subunit, beta isozyme
PPP2R1A	NM_014225.3	PR65A, PP2A-Aalpha	protein phosphatase 2, regulatory subunit A, alpha
PPP2R2B	NM_181676.2	SCA12, PR55-BETA, PR52B	protein phosphatase 2, regulatory subunit B, beta
PPP2R2C	NM_181876.2	PR52, IMYPNO, MGC33570, PR55G	protein phosphatase 2, regulatory subunit B, gamma
PPP3CA	NM_000944.4	CALN, CALNA, CNA1, PPP2B	protein phosphatase 3, catalytic subunit, alpha isozyme
PPP3CB	NM_001142354.1	CALNB, CALNA2, CNA2, PP2Bbeta	protein phosphatase 3, catalytic subunit, beta isozyme
PPP3CC	NM_005605.3	CALNA3, PP2Bgamma	protein phosphatase 3, catalytic subunit, gamma isozyme
PPP3R1	NM_000945.3	CALNB1, CNB, CNB1	protein phosphatase 3, regulatory subunit B, alpha
PPP3R2	NM_147180.2	PPP3RL	protein phosphatase 3, regulatory subunit B, beta
PRDM1	NM_182907.1	BLIMP1, PRDI-BF1	PR domain containing 1, with ZNF domain
PRKAA2	NM_006252.2	PRKAA, AMPK, AMPKa2	protein kinase, AMP-activated, alpha 2 catalytic subunit
PRKACA	NM_002730.3	PKACa	protein kinase, cAMP-dependent, catalytic, alpha
PRKACB	NM_182948.2	PKACb	protein kinase, cAMP-dependent, catalytic, beta
PRKACG	NM_002732.2	PKACg	protein kinase, cAMP-dependent, catalytic, gamma
PRKAR1B	NM_001164759.1		protein kinase, cAMP-dependent, regulatory, type I, beta
PRKAR2A	NM_004157.2	PRKAR2	protein kinase, cAMP-dependent, regulatory, type II, alpha
PRKAR2B	NM_002736.2	PRKAR2	protein kinase, cAMP-dependent, regulatory, type II, beta
PRKCA	NM_002737.2	PKCA	protein kinase C, alpha
PRKCB	NM_212535.1	PRKCB2, PKCB, PRKCB1	protein kinase C, beta
PRKCG	NM_002739.3	PKCG, SCA14, PKCC, MGC57564	protein kinase C, gamma
PRKDC	NM_006904.6	HYRC, HYRC1, DNPk1, p350, DNAPK, XRC7, DNA-PKcs	protein kinase, DNA-activated, catalytic polypeptide
PRKX	NM_005044.1	PKX1	protein kinase, X-linked
PRL	NM_000948.3		prolactin
PRLR	NM_001204318.1		prolactin receptor
PRMT8	NM_019854.3	HRMT1L3, HRMT1L4	protein arginine methyltransferase 8
PROM1	NM_006017.1	PROML1, MCDR2, STGD4, AC133, CD133, RP41, CORD12	prominin 1
PTCH1	NM_000264.3	NBCCS, PTCH, BCNS	patched 1
PTCRA	NM_138296.2	PTA, PT-ALPHA	pre T-cell antigen receptor alpha
PTEN	NM_000314.3	BZS, MHAM, MMAC1, TEP1, PTEN1	phosphatase and tensin homolog
PTPN11	NM_002834.3	NS1, BPTP3, SH-PTP2, SHP-2, PTP2C, SHP2	protein tyrosine phosphatase, non-receptor type 11
PTPN5	NM_001039970.1	STEP, PTPSTEP	protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched)
PTPRR	NM_001207015.1	PTPRQ, PTPBR7, PTP-SL, EC-PTP, PCPTP1	protein tyrosine phosphatase, receptor type, R
PTTG2	NM_006607.2		pituitary tumor-transforming 2
RAC1	NM_198829.1	TC-25, p21-Rac1, Rac-1	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
RAC2	NM_002872.3	EN-7	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)
RAC3	NM_005052.2		ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3)
RAD21	NM_006265.2	KIAA0078, hHR21, SCC1	RAD21 homolog (S. pombe)
RAD50	NM_005732.2	hRad50, RAD50-2	RAD50 homolog (S. cerevisiae)
RAD51	NM_133487.2	RAD51A, RECA, HsRad51, HsT16930, BRCC5	RAD51 recombinase
RAD52	NM_134424.2		RAD52 homolog (S. cerevisiae)
RAF1	NM_002880.2	Raf-1, c-Raf, CRAF	v-raf-1 murine leukemia viral oncogene homolog 1
RASA4	NM_001079877.2	KIAA0538, CAPRI, GAPL	RAS p21 protein activator 4
RASAL1	NM_004658.1	RASAL	RAS protein activator like 1 (GAP1 like)
RASGRF1	NM_153815.2	GRF1, CDC25L, CDC25, GRF55, H-GRF55, GNRP, PP13187	Ras protein-specific guanine nucleotide-releasing factor 1
RASGRF2	NM_006909.1	GRF2, Ras-GRF2	Ras protein-specific guanine nucleotide-releasing factor 2
RASGRP1	NM_005739.3	CaLDAG-GEFII, RASGRP	RAS guanyl releasing protein 1 (calcium and DAG-regulated)
RASGRP2	NM_001098670.1	CALDAG-GEFI	RAS guanyl releasing protein 2 (calcium and DAG-regulated)
RB1	NM_000321.1	OSRC, RB	retinoblastoma 1
RBX1	NM_014248.2	ROC1, RNF75, BA554C12.1	ring-box 1, E3 ubiquitin protein ligase
RELA	NM_021975.2	NFKB3, p65	v-rel avian reticuloendotheliosis viral oncogene homolog A
RELN	NM_005045.2	RL, PRO1598	reelin
RET	NM_020630.4	HSCR1, MEN2A, MTC1, MEN2B, PTC, CDHF12, RET51, CDHR16	ret proto-oncogene
RFC3	NM_002915.3	RFC38, MGC5276	replication factor C (activator 1) 3, 38kDa
RFC4	NM_181573.2	A1, RFC37	replication factor C (activator 1) 4, 37kDa
RHOA	NM_001664.2	ARH12, ARHA, RhoA, Rho12, RHOH12	ras homolog family member A
RIN1	NM_004292.2		Ras and Rab interactor 1
RNF43	NM_017763.4	FLJ20315, DKFZp781H0392, URCC	ring finger protein 43
RPA3	NM_002947.3	REPA3	replication protein A3, 14kDa
RPS27A	NM_002954.5	UBCEP80, Uba80, S27A	ribosomal protein S27a
RPS6KA5	NM_004755.2	MSK1, RLPK	ribosomal protein S6 kinase, 90kDa, polypeptide 5
RPS6KA6	NM_014496.1	RSK4	ribosomal protein S6 kinase, 90kDa, polypeptide 6
RRAS2	NM_001102669.2	TC21	related RAS viral (r-ras) oncogene homolog 2
RUNX1	NM_001754.4	AML1, CBFA2, PEBP2A2, AMLCR1	runt-related transcription factor 1
RUNX1T1	NM_004349.2	AML1T1, CBFA2T1, CDR, ETO, MTG8, ZMYND2	runt-related transcription factor 1; translocated to, 1 (cyclin D-related)
RXRG	NM_006917.3	NR2B3	retinoid X receptor, gamma



SETBP1	NM_015559.2	SEB, KIAA0437	SET binding protein 1
SETD2	NM_014159.6	HYPB, HIF-1, KIAA1732, FLJ23184, KMT3A	SET domain containing 2
SF3B1	NM_001005526.1	SAP155, SF3b155, PRPF10, Prp10, Hsh155	splicing factor 3b, subunit 1, 155kDa
SFN	NM_006142.3	YWHA5	stratifin
SFRP1	NM_003012.3	SARP2, FRP, FRP-1	secreted frizzled-related protein 1
SFRP2	NM_003013.2	SARP1, SDF-5, FRP-2	secreted frizzled-related protein 2
SFRP4	NM_003014.2	frpHE, FRP-4, FRPHE	secreted frizzled-related protein 4
SGK2	NM_170693.1		serum/glucocorticoid regulated kinase 2
SHC1	NM_183001.4	SHC, p66	SHC (Src homology 2 domain containing) transforming protein 1
SHC2	NM_012435.2	SLI, SCK, SHCB	SHC (Src homology 2 domain containing) transforming protein 2
SHC3	NM_016848.5	N-Shc, NSHC, SHCC	SHC (Src homology 2 domain containing) transforming protein 3
SHC4	NM_203349.2	RaLp	SHC (Src homology 2 domain containing) family, member 4
SIN3A	NM_015477.1	KIAA0700, DKFZP434K2235	SIN3 transcription regulator family member A
SIRT4	NM_012240.1	SIR2L4	sirtuin 4
SIX1	NM_005982.3	DFNA23	SIX homeobox 1
SKP1	NM_170679.2	SKP1A, EMC19, OCP2, TCEB1L, MGC34403, OCP-II, p19A	S-phase kinase-associated protein 1
SKP2	NM_005983.2	FBXL1, FBL1, p45	S-phase kinase-associated protein 2, E3 ubiquitin protein ligase
SMAD2	NM_001003652.1	MADH3, MADR2, JV18-1	SMAD family member 2
SMAD3	NM_005902.3	MADH3, JV15-2, HsT17436	SMAD family member 3
SMAD4	NM_005359.3	MADH4, DPC4	SMAD family member 4
SMAD9	NM_005905.2	MADH6, MADH9	SMAD family member 9
SMARCA4	NM_003072.3	SNF2L4, hSNF2b, BRG1, BAF190, SNF2, SWI2, SNF2-BETA, SNF2LB, FLJ39786	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
SMARCB1	NM_003073.3	SNF5L1, BAF47, Ini1, Snr1, hSNFS, Sfh1p, RDT	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily b, member 1
SMC1A	NM_006306.2	SMC1L1, DXS423E, KIAA0178, SB1.8, Smcb	structural maintenance of chromosomes 1A
SMC1B	NM_148674.3	SMC1L2, bK268H5	structural maintenance of chromosomes 1B
SMC3	NM_005445.3	CSPG6, HCAP, BAM, SMC3L1, bamacan	structural maintenance of chromosomes 3
SMO	NM_005631.3	SMOH, FZD11	smoothened, frizzled family receptor
SOCS1	NM_003745.1	SOCS-1, SSI-1, JAB, TIP3, Cish1	suppressor of cytokine signaling 1
SOCS2	NM_003877.3	STAT2, SSI2, SOCS-2, SSI-2, CIS2, Cish2	suppressor of cytokine signaling 2
SOCS3	NM_003955.3	SSI-3, CIS3, SOCS-3, Cish3	suppressor of cytokine signaling 3
SOS1	NM_005633.2	GINGF, HGF, GF1	son of sevenless homolog 1 (Drosophila)
SOS2	NM_006939.2		son of sevenless homolog 2 (Drosophila)
SOST	NM_025237.2	VBCH	sclerostin
SOX17	NM_022454.3		SRY (sex determining region Y)-box 17
SOX9	NM_000346.2	CMD1I, CMPD1I, SRA1	SRY (sex determining region Y)-box 9
SP1	NM_003109.1		Sp1 transcription factor
SPOP	NM_001007226.1	TEF2, BTBD32	speckle-type POZ protein
SPP1	NM_000582.2	BNSP, OPN, BSP1, ETA-1	secreted phosphoprotein 1
SPRY1	NM_005841.1	hSPRY1	sprouty homolog 1, antagonist of FGF signaling (Drosophila)
SPRY2	NM_005842.2	hSPRY2	sprouty homolog 2 (Drosophila)
SPRY4	NM_030964.3		sprouty homolog 4 (Drosophila)
SRSF2	NM_003016.3	SFRS2, SC-35, SC35, PR264, SFRS2A	serine/arginine-rich splicing factor 2
SSX1	NM_005635.2	CT5.1	synovial sarcoma, X breakpoint 1
STAG2	NM_001042749.1	SA-2, SCC3B	stromal antigen 2
STAT1	NM_007315.2	STAT91, ISGF-3	signal transducer and activator of transcription 1, 91kDa
STAT3	NM_139276.2	APRF	signal transducer and activator of transcription 3 (acute-phase response factor)
STAT4	NM_003151.2		signal transducer and activator of transcription 4
STK11	NM_000455.4	PJS, LKB1	serine/threonine kinase 11
STMN1	NM_203401.1	LAP18, C1orf215, SMN, OP18, PR22, PP19, PP17, Lag, FLJ32206	stathmin 1
SUV39H2	NM_024670.3	FLJ23414, KMT1B	suppressor of variegation 3-9 homolog 2 (Drosophila)
SYK	NM_003177.3		spleen tyrosine kinase
TBL1XR1	NM_024665.4	IRA1, FLJ12894, TBLR1, C21, DC42, E2A, ITF1, MGC129647, MGC129648,	transducin (beta)-like 1 X-linked receptor 1
TCF3	NM_003200.2	bHLHb21, VDIR, E47	transcription factor 3
TCF7L1	NM_031283.1	TCF3	transcription factor 7-like 1 (T-cell specific, HMG-box)
TCL1B	NM_004918.2	TML1	T-cell leukemia/lymphoma 1B
TET2	NM_001127208.2	KIAA1546, FLJ20032	tet methylcytosine dioxygenase 2
TFDP1	NM_007111.4	Dp-1, DRTF1, DP1	transcription factor Dp-1
TGFB1	NM_000660.3	TGFB, DPD1, CED, TGFBeta	transforming growth factor, beta 1
TGFB2	NM_003238.2		transforming growth factor, beta 2
TGFB3	NM_003239.2	ARVD1, ARVD	transforming growth factor, beta 3
TGFBR2	NM_001024847.1	MFS2	transforming growth factor, beta receptor II (70/80kDa)
THBS1	NM_003246.2	TSP1, THBS, TSP, THBS-1, TSP-1	thrombospondin 1
THBS4	NM_003248.3		thrombospondin 4
THEM4	NM_053055.4	CTMP	thioesterase superfamily member 4
TIAM1	NM_003253.2		T-cell lymphoma invasion and metastasis 1
TLR2	NM_003264.3	TIL4, CD282	toll-like receptor 2
TLR4	NM_138554.2	hToll, CD284, TLR-4, ARMD10	toll-like receptor 4
TLX1	NM_005521.3	TCL3, HOX11	T-cell leukemia homeobox 1
TMPRSS2	NM_005656.2	PRSS10	transmembrane protease, serine 2
TNC	NM_002160.3	HXB, DFNA56, TN, MGC167029	tenascin C
TNF	NM_000594.2	TNFA, TNFSF2, DIF, TNF-alpha	tumor necrosis factor
TNFAIP3	NM_006290.2	A20, OTUD7C	tumor necrosis factor, alpha-induced protein 3
TNFRSF10A	NM_003844.2	DR4, Apo2, TRAILR-1, CD261	tumor necrosis factor receptor superfamily, member 10a
TNFRSF10B	NM_003842.3	DR5, KILLER, TRICK2A, TRAIL-R2, TRICKB, CD262	tumor necrosis factor receptor superfamily, member 10b
TNFRSF10C	NM_003841.2	DcR1, TRAILR3, LIT, TRID, CD263	tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain
TNFRSF10D	NM_003840.3	DcR2, TRUNDD, TRAILR4, CD264	tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain

TNFSF10	NM_003810.2	TRAIL, Apo-2L, TL2, CD253	tumor necrosis factor (ligand) superfamily, member 10
TNN	NM_022093.1		tenascin N
TNR	NM_003285.2		tenascin R
TP53	NM_000546.2	p53, LFS1	tumor protein p53
TPO	NM_175722.1	TPX	thyroid peroxidase
TRAF7	NM_032271.2	RFWD1, RNF119, DKFZp586i021, MGC7807	TNF receptor-associated factor 7, E3 ubiquitin protein ligase
TSC1	NM_000368.3	TSC, KIAA0243, LAM, hamartin	tuberous sclerosis 1
TSHR	NM_001018036.2	LGR3	thyroid stimulating hormone receptor
TSLP	NM_033035.4		thymic stromal lymphopoietin
TSPAN7	NM_004615.3	MXS1, TM4SF2, MRX58, DXS1692E, TALLA-1, A15, CD231	tetraspanin 7
TTK	NM_003318.3	MPS1, MPS1L1, CT96, MPH1	TTK protein kinase
U2AF1	NM_001025203.1	U2AFBP, U2AF35, RNU2AF1, RN	U2 small nuclear RNA auxiliary factor 1
UBB	NM_018955.2	MGC8385, FLJ25987	ubiquitin B
UBE2T	NM_014176.3	HSPC150	ubiquitin-conjugating enzyme E2T (putative)
UTY	NM_007125.3	KDM6AL	ubiquitously transcribed tetratricopeptide repeat containing, Y-linked
VEGFA	NM_001025366.1	VEGF, VEGF-A, VPF	vascular endothelial growth factor A
VEGFC	NM_005429.2	VRP	vascular endothelial growth factor C
VHL	NM_000551.2	VHL1	von Hippel-Lindau tumor suppressor, E3 ubiquitin protein ligase
WEE1	NM_003390.3		WEE1 G2 checkpoint kinase
WHSC1	NM_007331.1	MMSET, NSD2	Wolf-Hirschhorn syndrome candidate 1
WHSC1L1	NM_017778.2	FLJ20353, NSD3	Wolf-Hirschhorn syndrome candidate 1-like 1
WIF1	NM_007191.2		WNT inhibitory factor 1
WNT10A	NM_025216.2		wingless-type MMTV integration site family, member 10A
WNT10B	NM_003394.2	WNT-12, SHFM6	wingless-type MMTV integration site family, member 10B
WNT11	NM_004626.2		wingless-type MMTV integration site family, member 11
WNT16	NM_057168.1		wingless-type MMTV integration site family, member 16
WNT2	NM_003391.2	INT11L, IRP	wingless-type MMTV integration site family member 2
WNT2B	NM_024494.1	WNT13, XWNT2	wingless-type MMTV integration site family, member 2B
WNT3	NM_030753.3	INT4, MGC131950, MGC138321, MGC138323	wingless-type MMTV integration site family, member 3
WNT4	NM_030761.3	WNT-4	wingless-type MMTV integration site family, member 4
WNT5A	NM_003392.3	hWNT5A	wingless-type MMTV integration site family, member 5A
WNT5B	NM_032642.2		wingless-type MMTV integration site family, member 5B
WNT6	NM_006522.3		wingless-type MMTV integration site family, member 6
WNT7A	NM_004625.3		wingless-type MMTV integration site family, member 7A
WNT7B	NM_058238.1		wingless-type MMTV integration site family, member 7B
WT1	NM_000378.3	GUD, WAGR, WIT-2, AWT1	Wilms tumor 1
XPA	NM_000380.3	XPAC, XP1	xeroderma pigmentosum, complementation group A
XRCC4	NM_003401.3		X-ray repair complementing defective repair in Chinese hamster cells 4
ZAK	NM_016653.2	pk, AZK, MLT, MRK, MLK7, MLTK, mlklak	sterile alpha motif and leucine zipper containing kinase AZK
ZBTB16	NM_006006.4	ZNF145, PLZF	zinc finger and BTB domain containing 16
ZBTB32	NM_014383.1	TZFP, FAXF, FAXF, Rog, ZNF538	zinc finger and BTB domain containing 32
ZIC2	NM_007129.2	HPE5	Zic family member 2
<b>Internal Reference</b>			
<b>Genes</b>			
ACAD9	NM_014049.4	NP0002, MGC14452	acyl-CoA dehydrogenase family, member 9
AGK	NM_018238.3	MULK, FLJ10842	acylglycerol kinase
AMMECR1L	NM_001199140.1	MGC4268	AMMECR1-like
C10orf76	NM_024541.2	FLJ13114	chromosome 10 open reading frame 76
CC2D1B	NM_032449.2	KIAA1836	coiled-coil and C2 domain containing 1B
CNOT10	NM_001256741.1	FLJ12890, FLJ13165	CCR4-NOT transcription complex, subunit 10
CNOT4	NM_001190848.1	NOT4, CLONE243, NOT4H	CCR4-NOT transcription complex, subunit 4
COG7	NM_153603.3		component of oligomeric golgi complex 7
DDX50	NM_024045.1	GU2, MGC3199, GUB, RH-II/GuB	DEAD (Asp-Glu-Ala-Asp) box polypeptide 50
DHX16	NM_001164239.1	DDX16, DBP2, Prp2, PRPF2	DEAH (Asp-Glu-Ala-His) box polypeptide 16
DNAJC14	NM_032364.5	DNAJ, DRIP78, HDJ3, LIP6, FLJ32792	DnaJ (Hsp40) homolog, subfamily C, member 14
EDC3	NM_001142443.1	YJDC, LSM16, FLJ21128, hYjeF_N2-15q23, YJEFN2	enhancer of mRNA decapping 3
EIF2B4	NM_172195.3	EIF2Bdelta, EIF-2B, DKFZP586J0119, EIF2B	eukaryotic translation initiation factor 2B, subunit 4 delta, 67kDa
ERCC3	NM_000122.1	XPB, BTF2, RAD25, TFIIH, GTF2H	excision repair cross-complementing rodent repair deficiency, complementation group 3
FCF1	NM_015962.4	C14orf111, CGI-35, Bka, UTP24	FCF1 rRNA-processing protein
FTSJ2	NM_013393.1	FJH1, MRM2	FtsJ RNA methyltransferase homolog 2 (E. coli)
GPATCH3	NM_022078.2	GPATC3, FLJ12455	G patch domain containing 3
HDAC3	NM_003883.2	RPD3, HD3, RPD3-2	histone deacetylase 3
MRPS5	NM_031902.3	MRP-5S, 5Smt	mitochondrial ribosomal protein 5S
MTMR14	NM_022485.3	C3orf29, FLJ22405, FLJ90311, hJumpy, hEDTP	myotubularin related protein 14
NOL7	NM_016167.3	C6orf90, PQBP3, NOP27, RARG-1, dj223E5.2	nucleolar protein 7, 27kDa
NUBP1	NM_001278506.1	NBP1, NBP35	nucleotide binding protein 1
PIAS1	NM_016166.1	DDXB1, GBP, GU/RH-II, ZMIZ3	protein inhibitor of activated STAT, 1
PIK3R4	NM_014602.1	VPS15, p150	phosphoinositide-3-kinase, regulatory subunit 4
PRPF38A	NM_032864.3	FLJ14936, Prp38	pre-mRNA processing factor 38A
RBM45	NM_152945.2	DRB1, FLJ44612	RNA binding motif protein 45
SAP130	NM_024545.3	FLJ12761	Sin3A-associated protein, 130kDa
SF3A3	NM_006802.2	SF3a60, SAP61, PRP9, PRPF9	splicing factor 3a, subunit 3, 60kDa
SLC4A1AP	NM_018158.2	kanadaptin, HLC3	solute carrier family 4 (anion exchanger), member 1, adaptor protein
TLK2	NM_006852.2	PKU-ALPHA, MGC44450	tousled-like kinase 2
TMUB2	NM_024107.2	MGC3123	transmembrane and ubiquitin-like domain containing 2
TRIM39	NM_021253.3	RNF23	tripartite motif containing 39
TTC31	NR_027749.1	FLJ12788	tetratricopeptide repeat domain 31
USP39	NM_001256725.1	SAD1, CGI-21, SNRNP65	ubiquitin specific peptidase 39

VPS33B	NM_018668.3	FLJ14848	vacuolar protein sorting 33 homolog B (yeast)
ZC3H14	NM_001160103.1	FLJ11806, UKp68, NY-REN-37	zinc finger CCCH-type containing 14
ZKSCAN5	NM_014569.3	ZFP95, ZNF914, ZSCAN37	zinc finger with KRAB and SCAN domains 5
ZNF143	NM_003442.5	SBF, pHZ-1, STAF	zinc finger protein 143
ZNF346	NM_012279.2	JAZ, Zfp346	zinc finger protein 346
ZNF384	NM_133476.3	TNRC1, CAGH1A, ClZ, NMP4, NP	zinc finger protein 384

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