



Cancer Gene List - VII

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Abstract: There are thousands of genes that are related to the cancer development. This asreticle gives 1400 genes that are supposed as cancer genes. This is cancer gene list part 7.
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Cell proliferation is regulated during the body growth and the cancer could happen if the regulation is out of control. Viruses can be used to introduce the reprogramming factors into adult cells. However, there is a risk that the virus used to introduce the stem cell factors sometimes possibly causes cancers. Controlling genes on and off is central to the biological process. The most serious medical conditions, such as cancer and birth defects, are due to abnormal cell division and differentiation. Cancer cell lines can be used to find potential anti-tumor drugs. To control the differentiation of stem cell precisely is important in the drug development (Ma, et al, 2014).

There are thousands of genes that are related to the cancer development. Here it gives 1400 genes that are supposed as cancer genes (Table 1) (Atlas of Genetics and Cytogenetics in Oncology and Haematology., 2015). HGNC is responsible for

approving unique symbols and names for human loci, including protein coding genes, ncRNA genes and pseudogenes, to allow unambiguous scientific communication. The HUGO Gene Nomenclature Committee is the only worldwide authority that assigns standardised nomenclature to human genes. The HGNC approves both a short-form abbreviation known as a gene symbol, and also a longer and more descriptive name. Each symbol is unique and the committee ensures that each gene is only given one approved gene symbol. This allows for clear and unambiguous reference to genes in scientific communications, and facilitates electronic data retrieval from databases and publications. In preference, symbols also maintain parallel construction for different members of a gene family and can also be used for orthologous genes in other vertebrate species (HGNC, 2015).

Table 1. Cancer gene list (7)

Gene	Location	HGNC (Hugo) Name
S100A10	1q21.3	S100A10 (S100 calcium binding protein A10)
S100A13	1q21.3	S100A13 (S100 calcium binding protein A13)
S100A1	1q21.3	S100A1 (S100 calcium binding protein A1)
S100A2	1q21.3	S100A2 (S100 calcium binding protein A2)
S100A4	1q21.3	S100A4 (S100 Calcium Binding Protein A4)
S100A7c (Alias)	1q21.3	S100A7
S100A7	1q21.3	S100A7 (S100 calcium binding protein A7)
S100A8	1q21.3	S100A8 (S100 calcium binding protein A8)
S100A9	1q21.3	S100A9 (S100 calcium binding protein A9)

S100A (Alias)	1q21.3	S100A1
S100 (Alias)	1q21.3	S100A1
S100 (Alias)	21q22.3	S100B
S100-alpha (Alias)	1q21.3	S100A1
S100Beta (Alias)	21q22.3	S100B
S100B	21q22.3	S100B (S100 calcium binding protein B)
S100E (Alias)	4p16.1	S100P
S100L (Alias)	1q21.3	S100A2
S100PBP	1p35.1	S100PBP (S100P binding protein)
S100PBPR (Alias)	1p35.1	S100PBP
S100P	4p16.1	S100P (S100 calcium binding protein P)
S10 (Alias)	Xq28	LICAM
S14 (Alias)	11q14.1	THRSP
S1-5 (Alias)	2p16.1	EFEMP1
S171 (Alias)	14q24.2	NUMB
S27 (Alias)	1q21.3	RPS27
SA-2 (Alias)	Xq25	STAG2
SA2 (Alias)	Xq25	STAG2
SAG (salivary agglutinin; human) (Alias)	10q26.13	DMBT1
SAG (Sensitive to Apoptosis Gene) (Alias)	3q23	RNF7
Salvador (Alias)	14q22.1	SAV1
SAP1 (Alias)	10q22.1	PSAP
SAP-97 (Alias)	3q29	DLG1
SAP97 (Alias)	3q29	DLG1
SAPK2A (Alias)	6p21.31	MAPK14
SAPK-3 (Alias)	22q13.33	MAPK12
SAPK3 (Alias)	22q13.33	MAPK12
SAPK4 (Alias)	6p21.31	MAPK13
SAPKK-1 (Alias)	17p12	MAP2K4
SAPKK1 (Alias)	17p12	MAP2K4
SAR2 (Alias)	11p11.2	CD82
SARNP	12q13.2	SARNP (cytokine induced protein 29 kDa)
SARP1 (Alias)	4q31.3	SFRP2
SASH1	6q24.3	SASH1 (SAM and SH3 domain containing 1)
SASP (Alias)	9q31.3	TXN
SATB1	3p24.3	SATB1 (SATB homeobox 1)
SAV1	14q22.1	SAV1 (Salvador homolog 1 (Drosophila))
SAX3 (Alias)	3p12.3	ROBO1
SBMA (Alias)	Xq12	AR
SBP (Alias)	17p13.1	SHBG
SBS (Alias)	16q12.1	CYLD
SCAF1	19q13.33	SCAF1 (SR-related CTD-associated factor 1)
SCAF (Alias)	19q13.33	SCAF1

SCAR13 (Alias)	6q24.3	GRM1
SCC1 (Alias)	11p11.2	PTPRJ
SCC3B (Alias)	Xq25	STAG2
SCCA-1 (Alias)	18q21.33	SERPINB3
SCCA1 (Alias)	18q21.33	SERPINB3
SCC (Alias)	18q21.33	SERPINB3
SCCA-PD (Alias)	18q21.33	SERPINB3
SCCE (Alias)	19q13.41	KLK7
SCF (Alias)	12q21.32	KITLG
SCFR (Stem Cell Factor Receptor) (Alias)	4q12	KIT
SCH (Alias)	22q12.2	NF2
SCKL1 (Alias)	3q23	ATR
SCKL (Alias)	3q23	ATR
SCL (stem cell leukaemia), TCL5 (T cell leukaemia 5) (Alias)	1p33	TAL1
SCN2 (Alias)	1p22.1	GFI1
SCNX (Alias)	Xp11.23	WAS
SCOP (Alias)	18q21.33	PHLPP1
SCP3 (Alias)	3p22.2	CTDSPL
SCRA1 (Alias)	7q36.3	MNX1
Scraps (Alias)	7p14.2	ANLN
SCS (Alias)	7p21.1	TWIST1
SCTE (Alias)	19q13.41	KLK5
SCURFIN (Alias)	Xp11.23	FOXP3
SCYAR1 (Alias)	3p21.31	CCR1
SCYB10 (Alias)	4q21.1	CXCL10
SCYB4 (Alias)	4q13.3	PF4
SCYB4V1 (Alias)	4q13.3	PF4V1
SCYB5 (Alias)	4q13.3	CXCL5
SCYD1 (Alias)	16q21	CX3CL1
SDBCAG84 (Alias)	20q11.22	ERGIC3
SDC1	2p24.1	SDC1 (syndecan 1)
SDC (Alias)	2p24.1	SDC1
SDCBP	8q12.1	SDCBP (syndecan binding protein (syntenin))
SDCCAG43 (Alias)	9q22.31	WNK2
SDF-5 (Alias)	4q31.3	SFRP2
SDGF (Alias)	4q13.3	AREG
SDH1 (succinate dehydrogenase 1) (Alias)	1p36.13	SDHB
SDH3 (succinate dehydrogenase 3) (Alias)	1q23.3	SDHC
SDH4 (succinate dehydrogenase 4) (Alias)	11q23.1	SDHD
SDHB	1p36.13	SDHB (succinate dehydrogenase complex II, subunit B, iron-sulfur protein or IP)
SDHC	1q23.3	SDHC (succinate dehydrogenase complex II, subunit C, integral membrane protein)
SDHD	11q23.1	SDHD (succinate dehydrogenase complex II, subunit D, integral membrane protein)
SDI1 (Senescence cell- derived inhibitor-1) (Alias)	6p21.2	CDKN1A

SDR44U1 (Alias)	11p15.1	HTATIP2
SEB (Alias)	18q12.3	SETBP1
Securin (Alias)	5q33.3	PTTG1
SECURIN (Alias)	5q33.3	PTTG1
SEK1 (Alias)	17p12	MAP2K4
SEL1L	14q31.1	SEL1L (sel-1 suppressor of lin-12-like (C. elegans))
SEL1-like (Alias)	14q31.1	SEL1L
SELE	1q24.2	SELE (selectin E, endothelial adhesion molecule 1)
SELP (Alias)	5p12	SEPP1
SelY (Alias)	14q31.1	DIO2
SEMA3B	3p21.31	SEMA3B (sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3B)
SEMA3F	3p21.31	SEMA3F (sema domain, immunoglobulin domain (Ig), short basic domain, secreted, (semaphorin) 3F)
SEMA4 (Alias)	3p21.31	SEMA3F
SEMA4D	9q22.2	SEMA4D (sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D)
SEMA5 (Alias)	3p21.31	SEMA3B
SEMAA (Alias)	3p21.31	SEMA3B
SemA (Alias)	3p21.31	SEMA3B
SEMA-IV (Alias)	3p21.31	SEMA3F
SEMAJ (Alias)	9q22.2	SEMA4D
SEMAK (Alias)	3p21.31	SEMA3F
SEP15	1p22.3	SEP15 (15 kDa selenoprotein)
SEP (Alias)	3p21.31	PLXNB1
SeP (Alias)	5p12	SEPP1
SEPP1	5p12	SEPP1 (selenoprotein P, plasma, 1)
SEPT2	2q37.3	SEPT2 (septin 2)
SEPT5	22q11.21	SEPT5 (septin 5)
SEPT6	Xq24	SEPT6 (septin 6)
SEPT9	17q25.2	SEPT9 (MLL septin-like fusion)
Serine/threonine-protein kinase VRK1 (Alias)	14q32.2	VRK1
SERK1 (Alias)	17p12	MAP2K4
SERPINB3	18q21.33	SERPINB3 (Serpine Peptidase Inhibitor, Clade B (Ovalbumin), Member 3)
SERPINB5	18q21.33	SERPINB5 serpin peptidase inhibitor, clade B (ovalbumin), member 5
SETBP1	18q12.3	SETBP1 (SET binding protein 1)

SET	9q34.11	SET (SET nuclear oncogene)
SETLSS (Alias)	2q37.3	TWIST2
SF-1 (Alias)	9q33.3	NR5A1
SF1 (Alias)	9q33.3	NR5A1
SF2 (Alias)	17q22	SRSF1
SF2p33 (Alias)	17q22	SRSF1
SFA-1 (Alias)	11p15.5	CD151
SFA1 (Alias)	11p15.5	CD151
SF (Alias)	7q21.11	HGF
SFPQ	1p34.3	SFPQ (PTB-associated splicing factor)
SFPQ (splicing factor proline/glutamine rich) (Alias)	1p34.3	SFPQ
SFRP2	4q31.3	SFRP2 (secreted frizzled-related protein 2)
SFRP3 (Alias)	2q32.1	FRZB
SFRP4	7p14.1	SFRP4 (Secreted Frizzled-Related Protein 4)
SFRS19 (Alias)	19q13.33	SCAF1
SFRS1 (Alias)	17q22	SRSF1
SFRS3 (Alias)	6p21.31	SRSF3
SG2NA (Alias)	2p22.2	STRN
SGK1	6q23.2	SGK1 (serum/glucocorticoid regulated kinase 1)
SGK (Alias)	6q23.2	SGK1
SGN2 (Alias)	15q21.1	COPS2
Sgo1 (Alias)	3p24.3	SGOL1
SGO (Alias)	3p24.3	SGOL1
SGOL1	3p24.3	SGOL1 (shugoshin-like 1 (S. pombe))
SGP-2 (Alias)	8p21.1	CLU
SGP2 (Alias)	8p21.1	CLU
SGRF (Alias)	12q13.3	IL23A
SH3D2A (Alias)	9p22.2	SH3GL2
SH3D6A (Alias)	6q24.3	SASH1
SH3GL1	19p13.3	SH3GL1 (extra eleven nineteen leukemia fusion gene)
SH3GL2	9p22.2	SH3GL2 (SH3-domain GRB2-like 2)
SH3P4 (Alias)	9p22.2	SH3GL2
SH3P9 (Alias)	2q14.3	BIN1
SHBG	17p13.1	SHBG (sex hormone-binding globulin)
SHC1	1q21.3	SHC1 (SHC (Src homology 2 domain containing) transforming protein 1)
SHC4	15q21.1	SHC4 (SHC (Src homology 2 domain containing) family, member 4)
SHCA (Alias)	1q21.3	SHC1
SHC (Alias)	1q21.3	SHC1
SHCD (Alias)	15q21.1	SHC4

SHEP3 (Alias)	11q14.3	TYR
SHFM1D (Alias)	7q21.3	DLX5
SHFM4 (Alias)	3q28	TP63
SHH	7q36.3	SHH (Sonic hedgehog)
SHIP-2 (Alias)	11q13.4	INPPL1
SHIP2 (Alias)	11q13.4	INPPL1
SHP-1 (Alias)		PTPN6
SHP1 (Alias)		PTPN6
SHP-1L (Alias)		PTPN6
SHP-2 (Alias)	12q24.13	PTPN11
SH-PTP1 (Alias)		PTPN6
SH-PTP2 (Src homology 2 domain-containing protein tyrosine phosphatase, 2) (Alias)	12q24.13	PTPN11
SIAH1A (Alias)	16q12.1	SIAH1
SIAH1	16q12.1	SIAH1 (siah E3 ubiquitin protein ligase 1)
SIAH2	3q25.1	SIAH2 (seven in absentia homolog 2 (Drosophila))
SIAL3 (Alias)	11q13.4	NEU3
SIAT7A (Alias)	17q25.1	ST6GALNAC1
SIC-1 (Alias)	11q24.3	FLI1
SID1669 (Alias)	1p32.3	RNF11
SIL (Alias)	1p33	STIL
SIMA135 (Alias)	3p21.31	CDCP1
SIMRP7 (Alias)	6p21.1	ABCC10
Sine oculis (Drosophila homolog) (Alias)	14q23.1	SIX1
SIPA1	11q13.1	SIPA1 (signal-induced proliferation-associated 1)
SIP (Alias)	8q22.1	TP53INP1
SIR2alpha (Alias)	10q21.3	SIRT1
SIR2L1 (Alias)	10q21.3	SIRT1
SIRT1	10q21.3	SIRT1 (sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae))
Siva-1 (Alias)	14q32.33	SIVA1
SIVA1	14q32.33	SIVA1 (SIVA1, Apoptosis-Inducing Factor)
Siva-2 (Alias)	14q32.33	SIVA1
SIVA (Alias)	14q32.33	SIVA1
SIX1	14q23.1	SIX1 (sine oculis homeobox homolog 1) (mammalian)
SJA (Alias)	1p36.12	HSPG2
SJS1 (Alias)	1p36.12	HSPG2
SJS2 (Alias)	5p13.1	LIFR
SJS (Alias)	1p36.12	HSPG2
SK (Alias)	10q21.1	DKK1
Skeletrophin (Alias)	1p36.33	MIB2
SKR1 (Alias)	2q24.1	ACVR1
SKR3 (Alias)	12q13.13	ACVRL1
SKY (Alias)	15q15.1	TYRO3
SLC16A1	1p13.2	SLC16A1 (solute carrier family 16, member 1)

		(monocarboxylic acid transporter 1))
SLC16A3	17q25.3	SLC16A3 (solute carrier family 16, member 3 (monocarboxylic acid transporter 4))
SLC19A3	2q36.3	SLC19A3 (solute carrier family 19 (thiamine transporter), member 3)
SLC1A5	19q13.32	SLC1A5 (solute carrier family 1 (neutral amino acid transporter), member 5)
SLC39A1	1q21.3	SLC39A1 (solute carrier family 39 (zinc transporter), member 1)
SLC39A6	18q12.2	SLC39A6 (solute carrier family 39 (zinc transporter), member 6)
SLC4A1	17q21.31	SLC4A1 (solute carrier family 4, anion exchanger, member 1 (erythrocyte membrane protein band 3, Diego blood group))
SLC5A5	19p13.11	SLC5A5 (solute carrier family 5 (sodium iodide symporter), member 5)
SLC5A8	12q23.1	SLC5A8 (solute carrier family 5 member 8)
SLC6A2 (Alias)	10p15.1	NET1
SLC9A3R1	17q25.1	SLC9A3R1 (solute carrier family 9 (sodium/hydrogen exchanger), member 3 regulator 1)
SLIL2 (Alias)	5q34	SLIT3
SLIL3 (Alias)	4p15.2	SLIT2
SLIM3 (Alias)	2q12.1	FHL2
SLIT1 (Alias)	5q34	SLIT3
Slit-2 (Alias)	4p15.2	SLIT2
SLIT2	4p15.2	SLIT2 (slit homolog 2 (Drosophila))
Slit-3 (Alias)	5q34	SLIT3
SLIT3	5q34	SLIT3 (slit homolog 3 (Drosophila))
SLP-2 (Alias)	9p13.3	STOML2
SLP-65 (Alias)	10q24.1	BLNK
SLP65 (Alias)	10q24.1	BLNK
SLUG (Alias)	8q11.21	SNAI2
SLUGH2 (Alias)	20q13.13	SNAI1
SLUGH (Alias)	8q11.21	SNAI2
SM-20 (Alias)	1q42.2	EGLN1
SM20 (Alias)	1q42.2	EGLN1
SM22 (Alias)	11q23.3	TAGLN
SMAC3 (Alias)	12q24.31	DIABLO
SMAC (Alias)	12q24.31	DIABLO
SMAD2	18q21.1	SMAD2 (mothers against decapentaplegic homolog 2 (Drosophila))

SMAD4	18q21.2	SMAD4 (mothers against decapentaplegic homolog 4 (Drosophila))
SMAP-1 (Alias)	6q13	SMAP1
SMAP1	6q13	SMAP1 (stromal membrane-associated protein 1)
SMAP-3 (Alias)	12q24.31	DENR
SMAP45 (Alias)	5q31.3	HDAC3
SMARCA3 (Alias)	3q24	HLTF
SMARCA4	19p13.2	SMARCA4 (SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4)
SMARCA6 (Alias)	10q23.33	HELLS
SMARCB1	22q11.23	SMARCB1 (SWI/SNF related, matrix associated, actin dependent regulator of chromatin B1)
SMARCF1 (Alias)	1p36.11	ARID1A
SMA1 (Alias)	Xq12	AR
SMCC (Alias)	11q23.3	TAGLN
SMCP-2 (Alias)	16q21	MMP15
SMCT1 (Alias)	12q23.1	SLC5A8
SMCT (Alias)	12q23.1	SLC5A8
SMN (Alias)	1p36.11	STMN1
SMTPHN (Alias)	11q13.2	AIP
SMUC (Alias)	11p15.5	MUC2
SMYD2	1q32.3	SMYD2 (SET and MYND domain containing 2)
SMYD3	1q44	SMYD3 (SET and MYND domain containing 3)
SNA (Alias)	20q13.13	SNAI1
SNAH (Alias)	20q13.13	SNAI1
SNAI1	20q13.13	SNAI1 (snail homolog 1 (Drosophila))
SNAI2	8q11.21	SNAI2 (SNAIL HOMOLOG 2)
SNAPA (Alias)	19q13.32	NAPA
SNCG	10q23.2	SNCG (synuclein, gamma (breast cancer-specific protein 1))
SNF2B (Alias)	19p13.2	SMARCA4
SNF2-beta (Alias)	19p13.2	SMARCA4
SNF2L3 (Alias)	3q24	HLTF
SNF2L4 (Alias)	19p13.2	SMARCA4
SNF2LB (Alias)	19p13.2	SMARCA4
SNF5L1 (Alias)	22q11.23	SMARCB1
SNHG2 (Alias)	1q25.1	GAS5
SNL (Alias)	7p22.1	FSCN1
SOCS1	16p13.13	SOCS1 (Suppressor of cytokine signaling 1)
SOCS2	12q22	SOCS2 (suppressor of cytokine signaling 2)
SOCS-2, suppressor of cytokine signaling 2 (Alias)	12q22	SOCS2

SOCS-3 (Alias)	17q25.3	SOCS3
SOCS3	17q25.3	SOCS3 (suppressor of cytokine signaling 3)
SOCS-4 (Alias)	18q22.2	SOCS6
SOCS4 (Alias)	18q22.2	SOCS6
SOCS-6 (Alias)	18q22.2	SOCS6
SOCS6	18q22.2	SOCS6 (Suppressor Of Cytokine Signaling 6)
SORBS2	4q35.1	SORBS2 (sorbin and SH3 domain containing 2)
SOX10	22q13.1	SOX10 (SRY (sex determining region Y)-box 10)
SOX11	2p25.2	SOX11 (SRY (sex determining region Y)-box 11)
SOX2	3q26.33	SOX2 (SRY (sex determining region Y)-box 2)
SOX4	6p22.3	SOX4 (SRY (sex determining region Y)-box 4)
SP17-1 (Alias)	11q24.2	SPA17
SP17 (Alias)	11q24.2	SPA17
SP-40 (Alias)	8p21.1	CLU
SPA17	11q24.2	SPA17 (sperm autoantigenic protein 17)
SPA1 (Alias)	11q13.1	SIPA1
SPAG15 (Alias)	7q31.32	SPAM1
SPAM1	7q31.32	SPAM1 (sperm adhesion molecule 1 (PH-20 hyaluronidase, zona pellucida binding))
SPAP (Alias)	1p33	PDZK1IP1
SPC1 (Alias)	15q26.1	FURIN
SPC5 (Alias)	19p13.3	PCSK4
SPC6 (Alias)	9q21.13	PCSK5
SPECC1	17p11.2	SPECC1 (sperm antigen HCMOGT-1)
SPG13 (Alias)	2q33.1	HSPD1
SPG1 (Alias)	Xq28	LICAM
SPG5A (Alias)	8q12.3	CYP7B1
SPGF8 (Alias)	9q33.3	NR5A1
SPI-1 (Alias)	11p11.2	SPI1
SPI1	11p11.2	SPI1 (spleen focus forming virus (SFFV) proviral integration oncogene spi1)
SPINK7	5q32	SPINK7 (serine peptidase inhibitor, Kazal type 7 (putative))
SPINO (Alias)	17q21.33	PPP1R9B
SPINT1	15q15.1	SPINT1 (serine peptidase inhibitor, Kunitz type 1)
Spn (Alias)	17q21.33	PPP1R9B
SPOT14 (Alias)	11q14.1	THRSP
SPP-1 (Alias)	4q22.1	SPP1
SPP1	4q22.1	SPP1 (secreted phosphoprotein 1)

SPRY1	4q28.1	SPRY1 (Sprouty Homolog 1, Antagonist Of FGF Signaling (Drosophila))
SP (Spasmodic Polypeptide) (Alias)	21q22.3	TFF2
SR-A1 (Alias)	19q13.33	SCAF1
SRA1 (Alias)	19q13.33	SCAF1
SRC1 (Alias)	20q11.23	SRC
SRC3 (steroid receptor coactivator protein 3) (Alias)	20q13.12	NCOA3
SRC	20q11.23	SRC (v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian))
SRD5A2	2p23.1	SRD5A2 (steroid-5-alpha-reductase, alpha polypeptide 2 (3-oxo-5 alpha-steroid delta 4-dehydrogenase alpha 2))
SRG (Alias)	1p36.22	CASZ1
SRp20 (Alias)	6p21.31	SRSF3
SRP27 (Alias)	7q11.23	HSPB1
SRp30a (Alias)	17q22	SRSF1
SRSF1	17q22	SRSF1 (serine/arginine-rich splicing factor 1)
SRSF3	6p21.31	SRSF3 (serine/arginine-rich splicing factor 3)
SRX1 (Alias)	20p13	SRXN1
SRXN1	20p13	SRXN1 (sulfiredoxin 1)
SRXY2 (Alias)	Xp21.2	NR0B1
SRXY3 (Alias)	9q33.3	NR5A1
SS18	18q11.2	SS18 (synovial sarcoma translocation, chromosome 18)
SS18L1	20q13.33	SS18L1 (synovial sarcoma translocation gene on chromosome 18-like 1)
SS18	18q11.2	SS18 (synovial sarcoma translocation, chromosome 18)
SSeCKS (Alias)	6q25.1	AKAP12
SSH3BP1 (Alias)	10p12.1	ABI1
SSI-1 (Alias)	16p13.13	SOCS1
SSI1 (STAT-induced STAT inhibitor) (Alias)	16p13.13	SOCS1
SSI2 (Alias)	12q22	SOCS2
SSI-2, suppressor of cytokine signaling-2 (Alias)	12q22	SOCS2
SSI-3 (Alias)	17q25.3	SOCS3
SSI3 (Alias)	17q25.3	SOCS3
SSI4 (Alias)	18q22.2	SOCS6
SSK1 (Alias)	15q15.1	BUB1B
SSX2A (Alias)	Xp11.22	SSX2
SSX2B (Alias)	Xp11.22	SSX2
SSX2	Xp11.22	SSX2 (synovial sarcoma, X breakpoint 2)
SSX2IP	1p22.3	SSX2IP (synovial sarcoma, X breakpoint 2 interacting protein)
SSX2	Xp11.22	SSX2 (synovial sarcoma, X breakpoint 2)

SSX (Alias)	Xp11.22	SSX2
SSXT (Alias)	18q11.2	SS18
ST12 (Alias)	10p15.1	KLF6
ST1 (Alias)	8q12.1	SDCBP
ST3 (stromelysin-3) (Alias)	22q11.23	MMP11
ST6 (Alias)	11p11.2	CD82
ST6GALNAC1	17q25.1	ST6GALNAC1 (ST6 (alpha-N-acetyl-neuraminyl-2,3-beta-galactosyl-1,3)-N-acetylgalactosaminide alpha-2,6-sialyltransferase 1)
ST6GalNAcI (Alias)	17q25.1	ST6GALNAC1
STAG2	Xq25	STAG2 (Stromal Antigen 2)
STAI4 (Alias)	18q22.2	SOCS6
STAMP1 (Alias)	7q21.13	STEAP2
STAR (Alias)	12p12.3	GUCY2C
STARD12 (Alias)	8p22	DLC1
STARD13	13q13.1	STARD13 (StAR-related lipid transfer (START) domain containing 13)
STARD3	17q12	STARD3 (START domain containing 3)
STAT3	17q21.2	STAT3 (Signal Transducer and Activator of Transcription 3)
STAT5 (Alias)	17q21.2	STAT5B
STAT5B	17q21.2	STAT5B (signal transducer and activator of transcription 5B)
STATI2 (Alias)	12q22	SOCS2
STATI4 (Alias)	18q22.2	SOCS6
STEAP1	7q21.13	STEAP1 (Six Transmembrane Epithelial Antigene of the Prostate 1)
STEAP2	7q21.13	STEAP2 (six transmembrane epithelial antigen of the prostate 2)
STEAP (Alias)	7q21.13	STEAP1
Stefin-A (Alias)	3q21.1	CSTA
Stefin-B (Alias)	21q22.3	CSTB
STF1 (Alias)	3q21.1	CSTA
STF-1 (Alias)	13q12.2	PDX1
STFA (Alias)	3q21.1	CSTA
STFB (Alias)	21q22.3	CSTB
STIL	1p33	STIL (SCL/TAL1 interrupting locus)
STK11	19p13.3	STK11 (serine/threonine kinase 11)
STK12 (Alias)	17p13.1	AURKB
STK15 (Alias)	20q13.2	AURKA
STK1 (Stem cell kinase 1) (Alias)	13q12.2	FLT3
STK4	20q13.12	STK4 (serine/threonine kinase 4)

STK5 (Alias)	17p13.1	AURKB
STK6 (Alias)	20q13.2	AURKA
STK7 (Alias)	20q13.2	AURKA
STM2 (Alias)	1q42.13	PSEN2
STMN1	1p36.11	STMN1 (stathmin 1)
STMP (Alias)	7q21.13	STEAP2
STN (Alias)	20q13.33	EEF1A2
STOML2	9p13.3	STOML2 (stomatin (EPB72)-like 2)
STPK13 (SERINE/THREONINE PROTEIN KINASE 13) (Alias)	16p12.2	PLK1
Stress-activated protein kinase 1 (SAPK1) (Alias)	10q11.22	MAPK8
Stress-activated protein kinase 2 (SAPK2) (Alias)	5q35.3	MAPK9
Stress-activated protein kinase 3 (SAPK3) (Alias)	4q21.3	MAPK10
STRN	2p22.2	STRN (striatin, calmodulin binding protein)
STWS (Alias)	5p13.1	LIFR
SULF-1 (Alias)	8q13.2	SULF1
SULF1	8q13.2	SULF1 (sulfatase 1)
SULF2	20q13.12	SULF2 (sulfatase 2)
SUZ12	17q11.2	SUZ12 (joined to JAZF1)
SW (Alias)	17q21.31	SLC4A1
SWI2 (Alias)	19p13.2	SMARCA4
SWS (Alias)	5p13.1	LIFR
SYCL (Alias)	8q12.1	SDCBP
SYK	9q22.2	SYK (spleen tyrosine kinase)
SYLD (Alias)	14q11.2	NDRG2
Syncytin-1 (Alias)	-	ERVW-1
Syncytin (Alias)	-	ERVW-1
SYND1 (Alias)	2p24.1	SDC1
Syndecan (Alias)	2p24.1	SDC1
Synoretin (Alias)	10q23.2	SNCG
SYNPO2	4q26	SYNPO2 (synaptopodin 2)
SYT (Alias)	18q11.2	SS18
SYT homolog 1 (Alias)	20q13.33	SS18L1

UbcH10 (Alias)	20q13.12	UBE2C
UBCH10 (Alias)	20q13.12	UBE2C
UBD-3 (Alias)	6p22.1	UBD
UBD	6p22.1	UBD (ubiquitin D)
UBE2C	20q13.12	UBE2C (ubiquitin-conjugating enzyme E2C)
UBE2C-PEN (Alias)	20q13.12	UBE2C

UBE3A	15q11.2	UBE3A (ubiquitin protein ligase E3A)
UBP (Alias)	1p31.3	USP1
UBR6 (Alias)	2p16.3	FBXO11
UCHL2 (Alias)	3p21.1	BAP1
UEF (Alias)	1q23.3	USF1
UFO (Alias)	19q13.2	AXL
UKVH5d (Alias)	2p24.3	DDX1
ULG5 (Alias)	2p16.3	LHCGR
UMS (Alias)	12q24.1	TBX3
Unph-2 (Alias)	12q14.1	USP15
UNPH4 (Alias)	12q14.1	USP15
UNQ2561 (Alias)	19q13.12	FXYD5
UNQ362 (Alias)	13q14.3	OLFM4
UNQ473 (Alias)	19q13.2	CXCL17
UP50 (Alias)	14q32.12	FBLN5
UPAR (Alias)	19q13.31	PLAUR
URKR (Alias)	19q13.31	PLAUR
Uropontin (Alias)	4q22.1	SPP1
USB1	16q21	USB1 (U6 snRNA biogenesis 1)
USF1	1q23.3	USF1 (upstream transcription factor 1)
USP10 (Alias)	17q23.1	USP32
USP15	12q14.1	USP15 (ubiquitin specific peptidase 15)
USP1	1p31.3	USP1 (ubiquitin specific peptidase 1)
USP32	17q23.1	USP32 (ubiquitin specific peptidase 32)
USP6	17p13.2	USP6 (ubiquitin specific protease 6 (Tre-2 oncogene))
USP7	16p13.2	USP7 (ubiquitin specific peptidase 7 (herpes virus-associated))
USPL2 (Alias)	16q12.1	CYLD
USURPIN (Alias)	2q33.1	CFLAR
UV-DDB (Alias)	11p11.2	DDB2
UVO (Alias)	16q22.1	CDH1
Uvomorulin (Alias)	16q22.1	CDH1

Vaccinia-related kinase 1 (Alias)	14q32.2	VRK1
VAV1	19p13.3	VAV1 (vav 1 oncogene)
VAV3	1p13.3	VAV3 (vav 3 guanine nucleotide exchange factor)
VAV (Alias)	19p13.3	VAV1
VBCH2 (Alias)	11q13.2	LRP5
VCAN	5q14.2	VCAN (versican)
VCC-1 (Alias)	19q13.2	CXCL17
VCC1 (Alias)	19q13.2	CXCL17

VCP	9p13.3	VCP (valosin containing protein)
VDAC-1 (Alias)	5q31.1	VDAC1
VDAC1	5q31.1	VDAC1 (voltage-dependent anion channel 1)
VEGF-D (Alias)	Xp22.2	FIGF
VEGFD (Alias)	Xp22.2	FIGF
VEGII92A (Alias)	9q32	TNFSF15
VEGI (Alias)	9q32	TNFSF15
VF (Alias)	7q22.3	NAMPT
VHL	3p25.3	VHL (von Hippel-Lindau tumor suppressor)
VICKZ1 (Alias)	17q21.32	IGF2BP1
VIP21 (Alias)	7q31.2	CAV1
VIP	6q25.2	VIP (vasoactive intestinal peptide)
VISFATIN (Alias)	7q22.3	NAMPT
VIT1 (Alias)	2p16.3	FBXO11
VLA-6 (Alias)	2q31.1	ITGA6
VMCM1 (Alias)	9p21.2	TEK
VMCM (Alias)	9p21.2	TEK
VMP1	17q23.1	VMP1 (vacuole membrane protein 1)
VR1 (Alias)	17p13.2	TRPV1
VRK-1 (Alias)	14q32.2	VRK1
VRK1	14q32.2	VRK1 (Vaccinia-related kinase 1)
VRK2	2p16.1	VRK2 (vaccinia related kinase 2)
VRL-1 (Alias)	17p11.2	TRPV2
VRL1 (Alias)	17p11.2	TRPV2
VRL (Alias)	17p11.2	TRPV2
V-sis platelet-derived growth factor beta (simian sarcoma viral oncogene homolog) (Alias)	22q13.1	PDGFB
VTCN1	1p13.1	VTCN1 (V-set domain containing T cell activation inhibitor 1)
VZG1 (Alias)	9q31.3	LPAR1

WAF1 (Wild type p53 activated protein-1) (Alias)	6p21.2	CDKN1A
WAGR (Alias)	11p13	PAX6
WAMTP1 (Alias)	19p13.11	CRTCL
WARTS (Alias)	6q25.1	LATS1
WAS	Xp11.23	WAS (Wiskott-Aldrich syndrome)
WASP (Alias)	Xp11.23	WAS
WBSCR8 (Williams-Beuren syndrome chromosome region 8 protein) (Alias)	7q11.23	CLDN4
WD1 (Alias)	17q21.31	SLC4A1
WD (Alias)	17q21.31	SLC4A1
WDR77	1p13.2	WDR77 (WD repeat domain 77)

WDR79 (Alias)	17p13.1	WRAP53
WF-1 (Alias)	12q24.31	TRIAP1
WFDC1	16q24.1	WFDC1 (WAP four-disulfide core domain 1)
WGN1 (Alias)	5q14.2	VCAN
WGN (Alias)	5q14.2	VCAN
WHS (Alias)	4p16.3	WHSC1
WHSC1	4p16.3	WHSC1 (Wolf-Hirschhorn syndrome candidate 1)
WHSC1L1	8p11.23	WHSC1L1 (Wolf-Hirschhorn syndrome candidate 1 like gene 1)
WHSC1	4p16.3	WHSC1 (Wolf-Hirschhorn syndrome candidate 1)
WID (Alias)	5q31.2	CXXC5
WIF-1 (Alias)	12q14.3	WIF1
WIF1	12q14.3	WIF1 (WNT inhibitory factor 1)
Wip1 phosphatase (Alias)	17q23.2	PPM1D
WISP2	20q13.12	WISP2 (Wnt-1-inducible signaling pathway protein-2)
WISP3	6q21	WISP3 (WNT-1 inducible signaling pathway protein 3)
WNK2	9q22.31	WNK2 (WNK lysine deficient protein kinase 2)
WNT1	12q13.12	WNT1 (wingless-type MMTV integration site family, member 1)
Wnt1 signaling pathway protein 3 (Alias)	6q21	WISP3
WNT-5A (Alias)	3p14.3	WNT5A
WNT5A	3p14.3	WNT5A (wingless-type MMTV integration site family, member 5A)
WR (Alias)	17q21.31	SLC4A1
WRAP53	17p13.1	WRAP53 (WD repeat containing, antisense to TP53)
WRN	8p12	WRN (Werner syndrome, RecQ helicase-like)
WS1 (Alias)	2q36.1	PAX3
WS2A (Alias)	3p14.1	MITE
WS2 (Alias)	3p14.1	MITE
WS2E (Alias)	22q13.1	SOX10
WS3-10 (Alias)	11q23.3	TAGLN
WS3 (Alias)	2q36.1	PAX3
WS4 (Alias)	22q13.1	SOX10
WS9-14 (Alias)	8p21.3	LOXL2
WT1	11p13	WT1 (Wilms' tumor suppressor gene)
WTX (Wilms Tumor on the X chromosome) (Alias)	Xq11.2	AMER1

WVS2 (Alias)	7q36.1	EZH2
WVS (Alias)	7q36.1	EZH2
WW45 (Alias)	14q22.1	SAV1
WW (Alias)	16q12.1	ABCC11
WWC1	5q34	WWC1 (WW and C2 domain containing 1)
WWOX	16q23.1	WWOX (WW domain containing oxidoreductase)
WWP1	8q21.3	WWP1 (WW domain containing E3 ubiquitin protein ligase 1)
WWP4 (Alias)	14q22.1	SAV1
WWTR1	3q25.1	WWTR1 (WW domain containing transcription regulator 1)

X104 (Alias)	9q21.11	TJP2
XAF1	17p13.1	XAF1 (XIAP associated factor-1)
XAP-2 (Alias)	11q13.2	AIP
XAP2 (Alias)	11q13.2	AIP
XAP8 (Alias)	11q14.1	RSF1
XB130 (Alias)	10q25.3	AFAP1L2
XBR (Alias)	4q12	REST
XHL (Alias)	12q24.1	TBX3
XLA (Alias)	Xq22.1	BTK
XPAC xeroderma pigmentosum, complementation group A (Alias)	9q22.33	XPA
XPA	9q22.33	XPA xeroderma pigmentosum, complementation group A)
XPB (Alias)	2q14.3	ERCC3
XPBC (Alias)	2q14.3	ERCC3
XPCC xeroderma pigmentosum, complementation group C (Alias)	3p25.1	XPC
XPC	3p25.1	XPC (xeroderma pigmentosum, complementation group C)
XPD (Alias)	19q13.32	ERCC2
XPE (xeroderma pigmentosum, complementation group E) (Alias)	11p11.2	DDB2
XPF (xeroderma pigmentosum, complementation group F) (Alias)	16p13.12	ERCC4
XPG (xeroderma pigmentosum, complementation group G) (Alias)	13q33.1	ERCC5
XPID (Alias)	Xp11.23	FOXP3
XPO1	2p15	XPO1 (exportin 1 (CRM1 homolog, yeast))
XPO2 (Alias)	20q13.13	CSE1L
XP-V (Alias)	6p21.1	POLH
XRCC3	14q32.33	XRCC3 (X-ray repair complementing defective repair in Chinese hamster cells 3)
XRCC5	2q35	XRCC5 (X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining))

XRCC6	22q13.2	XRCC6 (X-ray repair complementing defective repair in Chinese hamster cells 6)
XRCC9 (X-ray repair complementing defective repair 9) (Alias)	9p13.3	FANCG
XTP4 (Alias)	17q12	MIEN1

Y10479 (Alias)	6p22.3	E2F3
YAF1 (Alias)	6q21	HDAC2
YAP1	11q22.1	YAP1 (Yes-associated protein 1, 65kDa)
YAP2 (Alias)	11q22.1	YAP1
YAP65 (Alias)	11q22.1	YAP1
YAP (Alias)	11q22.1	YAP1
YB-1 (Alias)	1p34.2	YBX1
YB1 (Alias)	1p34.2	YBX1
YBX1	1p34.2	YBX1 (Y box binding protein 1)
YKI (Alias)	11q22.1	YAP1
YKL086W (Alias)	20p13	SRXN1
YOTIAO (Alias)	7q21.2	AKAP9
YPEL3	16p11.2	YPEL3 (yippee-like 3 (Drosophila))
YPEL5	2p23.1	YPEL5 (yippee-like 5 (Drosophila))
YT (Alias)	7q22.1	ACHE

acrogranin (Alias)	17q21.31	GRN
adducin 3 (gamma) (Alias)	10q25.1	ADD3
affixin (Alias)	22q13.31	PARVB
aleurain (Alias)	15q25.1	CTSH
amphiregulin (Alias)	4q13.3	AREG
anaplastic lymphoma kinase (Ki-1) (Alias)	2p23.2	ALK
apactin (mouse) (Alias)	10q26.13	DMBT1
arachidonate omega 6-lipoxygenase (Alias)	17p13.2	ALOX15
asr1 (Alias)	11q13.1	FAU
aurkb-sv1 (Alias)	17p13.1	AURKB
aurkb-sv2 (Alias)	17p13.1	AURKB
axil (mostly in rat) (Alias)	17q24.1	AXIN2
bA12D24.1.1 (Alias)	9p24.1	RLN2
bA12D24.1.2 (Alias)	9p24.1	RLN2
bA209J19.1 (Alias)	13q14.3	OLFM4
bA276H19.3 (Alias)	1p34.2	CDC20
bA514O12.3 (Alias)	6q27	RNASET2
bA517O1.1 (Alias)	Xq25	STAG2
bA59I9.3 (Alias)	6q21	PDSS2
bA74P14.1 (Alias)	1q44	SMYD3
bca (Alias)	10q24.1	BLNK
bcl-xL (Alias)	20q11.21	BCL2L1
bcl-xS (Alias)	20q11.21	BCL2L1
beta3GNT6 (Alias)	11q13.5	B3GNT6
betaIG-M2 (Alias)	6q23.2	CTGF

beta-parvin (Alias)	22q13.31	PARVB
beta-TrCP1 (Alias)	10q24.32	BTRC
betaTrCP (Alias)	10q24.32	BTRC
bFGF (Alias)	4q28.1	NUDT6
bHLHa38 (Alias)	7p21.1	TWIST1
bHLHa39 (Alias)	2q37.3	TWIST2
bHLHb11 (Alias)	1q23.3	USF1
bHLHb24 (Alias)	20q11.21	ID1
bHLHb26 (Alias)	2p25.1	ID2
bHLHe32 (Alias)	3p14.1	MITF
bHLHe37 (Alias)	2p24.3	MYCN
bHLHe73 (Alias)	2p21	EPAS1
bK211L9.1 (Alias)	6q23.3	BCLAF1
brn-2 (Alias)	6q16.1	POU3F2
bTrCP1 (Alias)	10q24.32	BTRC
bTrCP (Alias)	10q24.32	BTRC
cardiac-specific homeobox (Alias)	5q35.1	NKX2-5
cCARMEN (Alias)	1p22.3	BCL10
cdc6 (Alias)	17q21.2	CDC6
c-E10 (Alias)	1p22.3	BCL10
c-erbB-3 (Alias)	12q13.2	ERBB3
c-erbB3 (Alias)	12q13.2	ERBB3
c-FLIP (Alias)	2q33.1	CFLAR
c-FLIPL (Alias)	2q33.1	CFLAR
c-FLIPR (Alias)	2q33.1	CFLAR
c-FLIPS (Alias)	2q33.1	CFLAR
c-fms (Alias)	5q32	CSF1R
c-Ha-ras 1 (Alias)	11p15.5	HRAS
chemokine orphan receptor 1 (Alias)	2q37.3	ACKR3
clAP1 (Alias)	11q22.2	BIRC2
c-IAP2 (Alias)	11q22.2	BIRC3
c-jun (Alias)	1p32.1	JUN
c-Ki-ras 2 (Alias)	12p12.1	KRAS
ckshs1 (Alias)	1q21.3	CKS1B
clathrin heavy chain (Alias)	17q23.1	CLTC
claudin-1 (Alias)	17p13.1	CLDN7
c-MAF (Alias)	16q23.2	MAF
c-mer (Alias)	2q13	MERTK
c-met (Alias)	7q31.2	MET
cMG1 (Alias)	14q24.1	ZFP36L1
c-myb10A_CDS (Alias)	6q23.3	MYB
c-myb13A_CDS (Alias)	6q23.3	MYB
c-myb14A_CDS (Alias)	6q23.3	MYB
c-myb8B_CDS (Alias)	6q23.3	MYB
c-myb (Alias)	6q23.3	MYB
c-myb_CDS (Alias)	6q23.3	MYB
coll-4 (Alias)	9q22.2	SEMA4D
common acute lymphocytic leukemia antigen (CALLA) (Alias)	3q25.2	MME
conductin (Alias)	17q24.1	AXIN2
cPLA2-alpha (Alias)	1q31.1	PLA2G4A
cPLA (2) interacting protein (Alias)	11q13.1	KAT5

c-Raf (Alias)	3p25.2	RAF1
c-rel (Alias)	2p16.1	REL
crg-2 (Alias)	4q21.1	CXCL10
c-SRC (Alias)	20q11.23	SRC
cysteinease-translase (Alias)	11p15.4	CARS
cysteine-tRNA ligase (Alias)	11p15.4	CARS
deleted in cancer 1 (Alias)	13q14.3	INTS6
dickkopf (Xenopus laevis) homolog 1 (Alias)	10q21.1	DKK1
dJ1061C18.1.1 (Alias)	3q29	DLG1
dJ1068H6.4 (Alias)	20p13	PRND
dJ149M18.1 (Alias)	6p21.1	NCR2
dJ221C16.10.1 (Alias)	6p22.2	HFE
dJ323M4.1 (Alias)	6q24.3	SASH1
dJ323M4 (Alias)	6q24.3	SASH1
dJ447F3.2 (Alias)	20q13.12	UBE2C
dJ477O4.2 (Alias)	20q11.22	ERGIC3
dJ496H19.1 (Alias)	6q23.3	PERP
dJ710H13.1 (Alias)	20q13.13	SNAIL
dJ734G22.1 (Alias)	1p36.22	CASZ1
dJ850E9.2 (Alias)	20p13	SRXN1
ebnerin (rat) (Alias)	10q26.13	DMBT1
ecogenin (Alias)	6q23.2	CTGF
edg-2 (Alias)	9q31.3	LPAR1
eEF1A-2 (Alias)	20q13.33	EEF1A2
efg (Alias)	6q23.3	MYB
eIF-3-epsilon (Alias)	11p15.4	EIF3F
eIF3-epsilon (Alias)	11p15.4	EIF3F
eIF3f (Alias)	11p15.4	EIF3F
eIF3-p110 (Alias)	16p11.2	EIF3C
eIF3-p170 (Alias)	10q26.11	EIF3A
eIF3-p47 (Alias)	11p15.4	EIF3F
eIF3 subunit p110 (Alias)	16p11.2	EIF3C
eIF3 subunit p47 (Alias)	11p15.4	EIF3F
eIF3-theta (Alias)	10q26.11	EIF3A
emb (Alias)	2p15	XPO1
eN (Alias)	6q14.3	NT5E
endosialin (Alias)	11q13.2	CD248
eNT (Alias)	6q14.3	NT5E
env (Alias)	-	ERVW-1
enverin (Alias)	-	ERVW-1
eps8 SH3 domain binding protein (Alias)	10p12.1	ABI1
erbB3-S (Alias)	12q13.2	ERBB3
erg-3 (Alias)	21q22.2	ERG
ether a go-go (Alias)	1q32.2	KCNH1
extracellular signal-regulated kinase 4 (Alias)	18q21.1	MAPK4
flvi-2/bmi-1 (Alias)	10p12.2	BMI1
fra-1 (Alias)	11q13.1	FOSL1
fractalkine (Alias)	16q21	CX3CL1
gamma adducin (adducin-like protein 70) (Alias)	10q25.1	ADD3
gamma-synuclein (Alias)	10q23.2	SNCG
gfg-1 (Alias)	4q28.1	NUDT6
gfg (Alias)	4q28.1	NUDT6

gIP-10 (Alias)	4q21.1	CXCL10
glypican (Alias)	2q37.3	GPC1
gp300 (glycoprotein 300; mouse) (Alias)	10q26.13	DMBT1
gp-340 (glycoprotein-340; human) (Alias)	10q26.13	DMBT1
granulin-epithelin (Alias)	17q21.31	GRN
hAP-2g (Alias)	20q13.31	TFAP2C
hBUB1 (Alias)	2q13	BUB1
hC2GnT-M (Alias)	15q22.2	GCNT3
hCDC6 (Alias)	17q21.2	CDC6
hCDCRel-1 (human cell division cycle regulation 1) (Alias)	22q11.21	SEPT5
hCLAP (Alias)	1p22.3	BCL10
hCox-2 (Alias)	1q31.1	PTGS2
hcp-1 (Alias)	1q41	CENPF
hCPE-R, CPE-R (Clostridium perfringens enterotoxin receptor) (Alias)	7q11.23	CLDN4
hD52 (Alias)	8q21.13	TPD52
hDkk1 (Alias)	10q21.1	DKK1
hDLP1 (Alias)	6q21	PDSS2
hdm2 (Alias)	12q15	MDM2
hDomino (Alias)	12q24.33	EP400
h-eag (Alias)	1q32.2	KCNH1
hEGP-2 (Alias)	2p21	EPCAM
hELD (Alias)	1p36.11	ARID1A
hensin (rabbit) (Alias)	10q26.13	DMBT1
hepatocyte growth factor receptor (Alias)	7q31.2	MET
hFat1 (Alias)	4q35.2	FAT1
hFEN-1 (Alias)	11q12.2	FEN1
hFIZ (Alias)	2q32.1	FRZB
hFKH1B (Alias)	3p13	FOXP1
hFPG1 (Alias)	15q24.2	NEIL1
hGC-1 (Alias)	13q14.3	OLFM4
hHIPk2 (Alias)	7q34	HIPK2
hiap-2 (Alias)	11q22.2	BIRC2
hJ1 (Alias)	20p12.2	JAG1
hK11 (Alias)	19q13.41	KLK11
hK7 (Alias)	19q13.41	KLK7
hKNL-1 (Alias)	15q15.1	CASC5
hluPGFS (Alias)	10p15.1	AKR1C3
hMafA (Alias)	8q24.3	MAFA
hMam-3 (Alias)	11q21	MAML2
hMI-ER1 (Alias)	1p31.3	MIER1
hMLH1 (Alias)	3p22.2	MLH1
hMSH2 (Alias)	2p21	MSH2
hMSH3 (Alias)	5q14.1	MSH3
hN1 (Alias)	9q34.3	NOTCH1
hN2 (Alias)	1p12	NOTCH2
hNedd5 (Alias)	2q37.3	SEPT2
hnRNPD0 (Alias)	4q21.22	HNRNPD
hOLfD (Alias)	13q14.3	OLFM4
hOSA1 (Alias)	1p36.11	ARID1A
hPAF1 (Alias)	19q13.2	PAF1
hPD-ECGF (Alias)	22q13.33	TYMP

hPTTG (Alias)	5q33.3	PTTG1
hRAD9 (Alias)	11q13.2	RAD9A
hRGS17 (Alias)	6q25.2	RGS17
hRspo1 (Alias)	1p34.3	RSPO1
hsa-mir-100 (Alias)	11q24.1	MIR100
hsa-mir-10b (Alias)	2q31.1	MIR10B
hsa-mir-122 (Alias)	18q21.31	MIR122
hsa-mir-125a (Alias)	19q13.41	MIR125A
hsa-mir-125b-1 (Alias)	11q24.1	MIR125B1
hsa-mir-125b-2 (Alias)	21q21.1	MIR125B2
hsa-mir-126 (Alias)	9q34.3	MIR126
hsa-mir-200c (Alias)	12p13.31	MIR200C
hsa-mir-21 (Alias)	17q23.1	MIR21
hsa-mir-221 (Alias)	Xp11.3	MIR221
hsa-mir-222 (Alias)	Xp11.3	MIR222
hsa-mir-22 (Alias)	17p13.3	MIR22
hsa-mir-23a (Alias)	19p13.13	MIR23A
hsa-mir-27a (Alias)	19p13.13	MIR27A
hsa-mir-331 (Alias)	12q22	MIR331
hsa-mir-373 (Alias)	19q13.42	MIR373
hsa-mir-449 (Alias)	5q11.2	MIR449A
hsa-mir-7-1 (Alias)	9q21.32	MIR7-1
hSCCE (Alias)	19q13.41	KLK7
hShcD (Alias)	15q21.1	SHC4
hSiah2 (Alias)	3q25.1	SIAH2
hSIR2 (Alias)	10q21.3	SIRT1
hSIRT1 (Alias)	10q21.3	SIRT1
hSNF2b (Alias)	19p13.2	SMARCA4
hSNF5 (Alias)	22q11.23	SMARCB1
hSpc105 (Alias)	15q15.1	CASC5
hSPRY1 (Alias)	4q28.1	SPRY1
hSTAR (Alias)	12p12.3	GUCY2C
hTid-1 (Alias)	16p13.3	DNAJA3
hTIE2 (Alias)	9p21.2	TEK
hTIF1 (Alias)	7q33	TRIM24
hTSHR-I (Alias)	14q31.1	TSHR
hucep-6 (Alias)	3p21.1	BAP1
huH1 (Alias)	1p36.11	CLIC4
human retinoblastoma susceptibility gene (Alias)	13q14.2	RB1
huParacaspase (Alias)	18q21.32	MALT1
hUsb1 (Alias)	16q21	USB1
h-warts (Alias)	6q25.1	LATS1
identified as the oncogene of the MC29 avian myelocytomatosis virus (Alias)	8q24.21	MYC
interferon beta 2 (Alias)	7p15.3	IL6
interleukin 6 (Alias)	7p15.3	IL6
intestinal membrane mucin MUC17 (Alias)	7q22.1	MUC17
iTip60 (Alias)	11q13.1	KAT5
kuz (Alias)	15q21.3	ADAM10
lck tyrosine kinase (AA 1-142) (Alias)	1p35.1	LCK
leukophysin (Alias)	1q25.3	DHX9
leukotriene A4 synthase (Alias)	10q11.21	ALOX5

lung cancer oncogene 7 (Alias)	5q35.3	GNB2L1
lysophospholipase D (Alias)	8q24.12	ENPP2
magicin (Alias)	4p15.32	MED28
mdkk1 (Alias)	10q21.1	DKK1
mE10 (Alias)	1p22.3	BCL10
memB (Alias)	2q23.3	RND3
membrane associated protein tyrosine kinase (Alias)	1p35.1	LCK
membrane mucin 17 (Alias)	7q22.1	MUC17
mER (Alias)	7p22.3	GPER1
mer (Alias)	2q13	MERTK
microRNA 126 (Alias)	9q34.3	MIR126
mili (Alias)	8p21.3	PIWIL2
minichain (Alias)	15q25.1	CTSH
miR-100 (Alias)	11q24.1	MIR100
miR-107 (Alias)	10q23.31	MIR107
mir-10b (Alias)	2q31.1	MIR10B
miR-125a (Alias)	19q13.41	MIR125A
miR-125b-2 (Alias)	21q21.1	MIR125B2
miR-126 (Alias)	9q34.3	MIR126
mir-133b (Alias)	6p12.2	MIR133B
miR-145 (Alias)	5q32	MIR145
miR-183 (Alias)	7q32.2	MIR183
miR-191 (Alias)	3p21.31	MIR191
miR-196b (Alias)	7p15.2	MIR196B
mir-200c (Alias)	12p13.31	MIR200C
mir-211 (Alias)	15q13.3	MIR211
miR-21 (Alias)	17q23.1	MIR21
miR-221 (Alias)	Xp11.3	MIR221
miR-222 (Alias)	Xp11.3	MIR222
miR-22 (Alias)	17p13.3	MIR22
miR-27a (Alias)	19p13.13	MIR27A
mir-7-1 (Alias)	9q21.32	MIR7-1
miRNA122A (Alias)	18q21.31	MIR122
miRNA122 (Alias)	18q21.31	MIR122
miRNA126 (Alias)	9q34.3	MIR126
miRNA133B (Alias)	6p12.2	MIR133B
miRNA145 (Alias)	5q32	MIR145
miRNA146B (Alias)	10q24.32	MIR146B
miRNA183 (Alias)	7q32.2	MIR183
miRNA196B (Alias)	7p15.2	MIR196B
miRNA23A (Alias)	19p13.13	MIR23A
miRNA296 (Alias)	20q13.32	MIR296
miRNA373 (Alias)	19q13.42	MIR373
mob-1 (Alias)	4q21.1	CXCL10
moesin (membrane-organising extension spike protein) (Alias)	Xq12	MSN
mouse Muc3 (Alias)	7q22.1	MUC17
mTOR (Alias)	1p36.22	MTOR
mucin-17 (Alias)	7q22.1	MUC17
mucin 5AC (Alias)	11p15.5	MUC5AC
mucin 6 (Alias)	11p15.5	MUC6
muclin (mouse) (Alias)	10q26.13	DMBT1

mucus type C2GnT (Alias)	15q22.2	GCNT3
murine name WOX1 (Alias)	16q23.1	WVOX
mutY (E. coli) homolog (Alias)	1p34.1	MUTYH
mutY homolog (Alias)	1p34.1	MUTYH
my036 (Alias)	12p13.31	ING4
neurotactin (Alias)	16q21	CX3CL1
notch1 (Alias)	9q34.3	NOTCH1
novelzin (Alias)	1p36.33	MIB2
nPKC-delta (Alias)	3p21.1	PRKCD
nPKC-iota (Alias)	3q26.2	PRKCI
oct-7 (Alias)	6q16.1	POU3F2
osteoactivin (Alias)	7p15.3	GPNMB
osteopontin (Alias)	4q22.1	SPP1
osteostatin (Alias)	12p11.22	PTHLH
p100 (Alias)	7q22.1	CUX1
p100 (Alias)	20q11.21	TPX2
p10 (Alias)	1q21.3	S100A10
p110 (Alias)	7q22.1	CUX1
p110 (Alias)	16p11.2	EIF3C
p110-alpha (Alias)	3q26.32	PIK3CA
p110D (Alias)	1p36.22	PIK3CD
p11 (Alias)	1q21.3	S100A10
p120 (Alias)	11q12.1	CTNND1
p122-RhoGAP (Alias)	8p22	DLC1
p140 TEK (Alias)	9p21.2	TEK
p15INK4b (Alias)	9p21.3	CDKN2B
p15(PAF) (Alias)	15q22.31	KIAA0101
p15PAF (Alias)	15q22.31	KIAA0101
p16 (Alias)	9p21.3	CDKN2A
p16- INK4a (Alias)	9p21.3	CDKN2A
p180 (Alias)	10q26.11	EIF3A
p180-ErbB3 (Alias)	12q13.2	ERBB3
p18-20 (Alias)	11p13	CD59
p185 (Alias)	10q26.11	EIF3A
p200 (Alias)	7q22.1	CUX1
p21 (Alias)	6p21.2	CDKN1A
p21-Rac2 (Alias)	22q13.1	RAC2
p29ING4 (Alias)	12p13.31	ING4
p30DBC (Alias)	8p21.3	KIAA1967
p325 (Alias)	11q14.1	RSF1
p32 (Alias)	4q35.1	ING2
p33ING2 (Alias)	4q35.1	ING2
p35srj (Alias)	6q24.1	CITED2
p38-2G4 (Alias)	12q13.2	PA2G4
p38 (Alias)	17p13.3	CRK
p38 (Alias)	6p21.31	MAPK14
p38 (Alias)	22q11.21	MAPK1
p38ALPHA (Alias)	6p21.31	MAPK14
p38delta (Alias)	6p21.31	MAPK13
p38gamma (Alias)	22q13.33	MAPK12
p400 (Alias)	12q24.33	EP400
p40 (Alias)	22q11.21	MAPK1

p40 (Alias)	3q28	TP63
p41 (Alias)	22q11.21	MAPK1
p41mapk (Alias)	22q11.21	MAPK1
p42 (Alias)	9q22.1	CDK20
p42-MAPK (Alias)	22q11.21	MAPK1
p44 (Alias)	1p13.2	WDR77
p44-ERK1 (Alias)	16p11.2	MAPK3
p44-MAPK (Alias)	16p11.2	MAPK3
p44/Mep50 (Alias)	1p13.2	WDR77
p45-sErbB3 (Alias)	12q13.2	ERBB3
p47 (Alias)	11p15.4	EIF3F
p51 (Alias)	3q28	TP63
p52 (Alias)	9p22.3	PSIP1
p53BP3 (Alias)	9p21.1	TOPORS
p53CP (Alias)	3q28	TP63
p53CSV (Alias)	12q24.31	TRIAP1
p53DINP1 (Alias)	8q22.1	TP53INP1
p54 (Alias)	11q24.3	ETS1
p55 (Alias)	21q22.2	ERG
p55 (Alias)	7p22.1	FSCN1
p55CDC (Alias)	1p34.2	CDC20
p59ILK (Alias)	11p15.4	ILK
p60 (Alias)	19q13.33	GLTSCR2
p60-Src (Alias)	20q11.23	SRC
p62 (Alias)	17q21.2	CDC6
p63 (Alias)	3q28	TP63
p66 (Alias)	1q21.3	SHC1
p67 (Alias)	12q22	METAP2
p67eIF2 (Alias)	12q22	METAP2
p68 (Alias)	17q23.3	DDX5
p68 kinase (Alias)	2p22.2	EIF2AK2
p73H (Alias)	3q28	TP63
p73L (Alias)	3q28	TP63
p75 (Alias)	7q22.1	CUX1
p75 (Alias)	9p22.3	PSIP1
p85 (Alias)	5q13.1	PIK3R1
p85-ALPHA (Alias)	5q13.1	PIK3R1
p85-sErbB3 (Alias)	12q13.2	ERBB3
p90 (Alias)	3q13.13	KIAA1524
p90 (Alias)	3q29	TFRC
p90S6K (Alias)	1p36.11	RPS6KA1
p97 (Alias)	9p13.3	VCP
p97MAPK (Alias)	15q21.2	MAPK6
pART5 (Alias)	8p23.1	TNKS
patched (Alias)	9q22.32	PTCH1
pCIP (p300/CBP-integrator associated protein; mouse) (Alias)	20q13.12	NCOA3
pEg3 kinase (Alias)	9p13.2	MELK
pJA923 (Alias)	Yp11.2	TSPY1
platelet glycoprotein G (Alias)	15q14	THBS1
pokemon (Alias)	19p13.3	ZBTB7A
polycystin-1 (Alias)	16p13.3	PKD1

pp125FAK (Alias)	8q24.3	PTK2
pp2386 (Alias)	16q24.2	FBXO31
pp60c-Src (Alias)	20q11.23	SRC
pP63mapk (Alias)	18q21.1	MAPK4
pp90RSK1 (Alias)	1p36.11	RPS6KA1
pPTB (Alias)	19p13.3	PTBP1
prebp1 (Alias)	14q32.2	MEG3
proepithelin (Alias)	17q21.31	GRN
progranulin (Alias)	17q21.31	GRN
pro-interleukin-1-beta (Alias)	2q13	IL1B
prorelaxin H2 (Alias)	9p24.1	RLN2
protein homologous to chicken B complex protein, guanine nucleotide binding (Alias)	5q35.3	GNB2L1
protein-tyrosine kinase (Alias)	1p35.1	LCK
proto-oncogene LCK (Alias)	1p35.1	LCK
ps20 (Alias)	16q24.1	WFDC1
pS2 (Alias)	21q22.3	TFF1
put. ptk (135aa); tyrosine kinase (Alias)	1p35.1	LCK
qkf (Alias)	10q22.2	KAT6B
querkopf (Alias)	10q22.2	KAT6B
rab6-interacting protein 2, ERC1 (Alias)	12p13.33	ERC1
rCop-1 (Alias)	20q13.12	WISP2
rec.1.3 (Alias)	9q31.3	LPAR1
rhombotin 1 (Alias)	11p15.4	LMO1
rVH6 (Alias)	12q21.33	DUSP6
scra (Alias)	7p14.2	ANLN
secreted mucin 17 (Alias)	7q22.1	MUC17
semaV (Alias)	3p21.31	SEMA3B
sFRP-4 (Alias)	7p14.1	SFRP4
slit2 (Alias)	5q34	SLIT3
small intestinal mucin MUC3 (Alias)	7q22.1	MUC17
smMLCK (Alias)	3q21.1	MYLK
sPLA2 (Alias)	1p36.13	PLA2G2A
sPLA2-IIA (Alias)	1p36.13	PLA2G2A
sv0-MUC4 (Alias)	3q29	MUC4
synaptopodin 2 (Alias)	4q26	SYNPO2
synCAM4 (Alias)	19q13.31	CADM4
tau-crystallin (Alias)	1p36.23	ENO1
t-DARPP (Alias)	17q12	PPP1R1B
tetraspanin-25 (Alias)	1p13.3	CD53
tgat (Alias)	5p15.2	TRIO
tNOX (Alias)	Xq26.1	ENOX2
uc001kjc.1 (Alias)	10q23.33	LGI1
vaccinia related kinase 1 (Alias)	14q32.2	VRK1
vomeroglandin (mouse) (Alias)	10q26.13	DMBT1
v-raf murine sarcoma viral oncogene homolog B1 (Alias)	7q34	BRAF
vzg-1 (Alias)	9q31.3	LPAR1
wts (Alias)	6q25.1	LATS1
ZABC1 (Alias)	20q13.2	ZNF217
ZAC1 (Alias)	6q24.2	PLAGL1
ZAC (Alias)	6q24.2	PLAGL1
ZBP1 (Alias)	17q21.32	IGF2BP1

ZBTB16	11q23.2	ZBTB16 (zinc finger and BTB domain containing 16)
ZBTB27 (Alias)	3q27.3	BCL6
ZBTB29 (Alias)	17p13.3	HIC1
ZBTB33	Xq24	ZBTB33 (zinc finger and BTB domain containing 33)
ZBTB7A	19p13.3	ZBTB7A (zinc finger and BTB domain containing 7A)
ZBTB7 (Alias)	19p13.3	ZBTB7A
ZBU1 (Alias)	3q24	HLTF
zcyto18 (Alias)	12q15	IL22
Zep-1 (Alias)	6p24.3	RREB1
Zf9 (Alias)	10p15.1	KLF6
ZFAB (Alias)	7q34	TRPV6
ZFHX3	16q22.2	ZFHX3 (AT-binding transcription factor 1)
ZFP36L1	14q24.1	ZFP36L1 (Zinc finger protein 36, C3H type-like 1)
ZG14P (Alias)	8q24.21	ASAP1
ZIF-268 (Alias)	5q31.2	EGR1
Zinc finger protein GLI1 (glioma-associated oncogene) (Alias)	12q13.3	GLI1
ZIP1 (Alias)	1q21.3	SLC39A1
ZIP6 (Alias)	18q12.2	SLC39A6
ZIRTL (Alias)	1q21.3	SLC39A1
ZMIZ3 (Alias)	15q23	PIAS1
ZMIZ5 (Alias)	1q21.1	PIAS3
ZMYM2	13q12.11	ZMYM2 (fused in myeloproliferative disorders).
ZMYND10	3p21.31	ZMYND10 (zinc finger, MYND-type containing 10)
ZMYND14 (Alias)	1q32.3	SMYD2
ZMYND1 (Alias)	1q44	SMYD3
ZMYND4 (Alias)	16q24.3	CBFA2T3
ZMYND6 (Alias)	1q42.2	EGLN1
ZNF145 (zinc finger protein 145) (Alias)	11q23.2	ZBTB16
ZNF146	19q13.12	ZNF146 (zinc finger protein 146)
ZNF163 (Alias)	1p22.1	GFII1
ZNF198 (zinc finger protein 198). (Alias)	13q12.11	ZMYM2
ZNF217	20q13.2	ZNF217 (zinc finger protein 217)
ZNF220 (Alias)	8p11.21	KAT6A
ZNF225 (Alias)	5q31.2	EGR1
ZNF348 (Alias)	Xq24	ZBTB33
ZNF363 (Alias)	4q21.1	RCHY1

ZNF384	12p13.31	ZNF384 (Zinc Finger protein 384)
ZNF51 (Alias)	3q27.3	BCL6
ZNF693 (Alias)	1p36.22	CASZ1
ZNF802 (Alias)	7p15.2	JAZF1
ZNF822 (Alias)	16q23.2	ATMIN
ZNF857A (Alias)	19p13.3	ZBTB7A
ZNF904 (Alias)	19q13.43	PEG3
ZNF-kaiso (Alias)	Xq24	ZBTB33
ZNFN1A1 (zinc finger protein, subfamily 1A, 1) (Alias)	7p12.2	IKZF1
ZNFN1A2 (Alias)	2q34	IKZF2
ZNFN3A1 (Alias)	1q44	SMYD3
ZO-2 (Alias)	9q21.11	TJP2
ZO2 (Alias)	9q21.11	TJP2
ZSCAN24 (Alias)	19q13.43	PEG3
ZYME (Alias)	14q22.2	BMP4
ZZANK1 (Alias)	1p36.33	MIB2
ZZZ1 (Alias)	2p11.2	KCMF1
ZZZ5 (Alias)	1p36.33	MIB2

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