

**nCounter® Human Fibrosis V2 Panel - Gene Details**

Gene	Accession	Synonyms	Full Name	Other Targets and Isoform Information
ABCA1	NM_005502.3	ABC1,HDLDT1;ATP-binding cassette, sub-family A (ABC1), member 1 BSEP,PFIC2;progressive familial intrahepatic cholestasis 2,bile salt export pump,ATP-binding cassette, sub-family	ATP binding cassette subfamily A member 1	
ABCB11	NM_003742.2	B (MDR/TAP), member 11	ATP binding cassette subfamily B member 11	
ACAA2	NM_006111.2	acyl-Coenzyme A acyltransferase 2	acyl-CoA acyltransferase 2	
ACACA	NM_198834.1	ACAC,ACC;acyl-Coenzyme A carboxylase alpha	acyl-CoA carboxylase alpha	
ACACB	NM_001093.3	acyl-Coenzyme A carboxylase beta	acyl-CoA carboxylase beta	
ACOX2	NM_003500.3	acyl-CoA oxidase 2, branched chain FACL4,MRX63,MRX68;fatty-acid-Coenzyme A ligase, long-chain 4,mental retardation, X-linked 63,mental	acyl-CoA oxidase 2	
ACSL4	NM_004458.2	oxidase 2, branched chain FACL4,MRX63,MRX68;fatty-acid-Coenzyme A ligase, long-chain 4,mental retardation, X-linked 63,mental retardation, X-linked 68	acyl-CoA synthetase long chain family member 4	
ACSM3	NM_005622.3	SAH,SA (rat hypertension-associated) homolog,SA hypertension-associated homolog (rat)	acyl-CoA synthetase medium chain family member 3	
ACTA2	NM_001613.1	actin, alpha 2, smooth muscle, aorta	actin alpha 2, smooth muscle	
ACTR1A	NM_005736.3	ARP1 (actin-related protein 1, yeast) homolog A (centractin alpha),ARP1 actin-related protein 1 homolog A, centractin alpha,ARP1 actin related protein 1 homolog	actin related protein 1A	
ACVRL1	NM_000020.1	ACVR1K1,ORW2;activin A receptor type II-like 1,activin A receptor type II	activin A receptor like type 1	
ADA2	NM_001282229.1	IDGFL,CER1;cat eye syndrome chromosome region, candidate 1	adenosine deaminase 2	
ADAM17	NM_003183.4	TACE;tumor necrosis factor, alpha, converting enzyme	ADAM metallopeptidase domain 17	
ADAM9	NM_001005845.1	CORD9;a disintegrin and metalloproteinase domain 9 (meltrin gamma),cone rod dystrophy 9	ADAM metallopeptidase domain 9	
ADCV7	NM_001114.4		adenylyl cyclase 7	
ADH1B	NM_000668.4	ADH2	alcohol dehydrogenase 1B (class I), beta polypeptide	
ADH1C	NM_000669.3	ADH3	alcohol dehydrogenase 1C (class I), gamma polypeptide	
ADH4	NM_000670.3		alcohol dehydrogenase 4 (class II), pi polypeptide	
ADH6	NM_000672.3		alcohol dehydrogenase 6 (class V)	
ADIPOQ	NM_004797.2	ACDC;adipocyte, C1Q and collagen domain containing	adiponectin, C1Q and collagen domain containing	
ADIPOR1	NM_015999.3		adiponectin receptor 1	
ADPGK	NR_023318.1		ADP dependent glucokinase	
AIM2	NM_004833.1		absent in melanoma 2	
AKR1B10	NM_020299.3	AKR1B11;aldo-keto reductase family 1, member B10 (aldo reductase)	aldo-keto reductase family 1 member B10	
AKT1	NM_001014432.1	v-akt murine thymoma viral oncogene homolog 1	AKT serine/threonine kinase 1	
ALAD	NM_000031.5	aminolevulinate, delta-, dehydratase	aminolevulinate dehydratase	
ALDH3A2	NM_001031806.1	SLS,ALDH10;aldehyde dehydrogenase 3 family, member A2	aldehyde dehydrogenase 3 family member A2	
ALDH7A1	NM_001182.3	ATQ1;aldehyde dehydrogenase 7 family, member A1	aldehyde dehydrogenase 7 family member A1	
ALDH9A1	NM_000696.3	ALDH7,ALDH4,ALDH9;aldehyde dehydrogenase 9 family, member A1	aldehyde dehydrogenase 9 family member A1	
ALDOB	NM_000035.3	aldolase B, fructose-bisphosphate	aldolase, fructose-bisphosphate B	
AMOTL1	NM_001301007.1		angiotonin like 1	
AMOTL2	NM_016201.2		angiotonin like 2	
ANAPC1	NM_022662.2		anaphase promoting complex subunit 1	
ANAPC10	NM_001256710.1		anaphase promoting complex subunit 10	
ANAPC7	NM_016238.2		anaphase promoting complex subunit 7	
ANGPTL4	NR_104213.1	angiopeitin-like 4	angiopeitin like 4	
AP1G1	NM_001030007.1	CLAPG1,ADTG;adaptor-related protein complex 1, gamma 1 subunit,adaptor related protein complex 1	adaptor related protein complex 1 subunit gamma 1	
AP1S1	NM_001283.3	gamma 1 subunit	adaptor related protein complex 1 subunit sigma 1	
AP2S1	NM_021575.2	CLAPS2,HHC3;hypocalciuric hypercalcemia 3 (Oklahoma type),adaptor related protein complex 2 sigma 1 subunit	adaptor related protein complex 2 subunit sigma 1	
APC	NM_000038.3	adenomatous polyposis coli,adenomatous polyposis coli,APC, WNT signaling pathway regulator	APC regulator of WNT signaling pathway	
APCS	NM_001639.3		amyloid P component, serum	
APL2	NM_001243299.1	APPL2;amyloid beta (A4) precursor-like protein 2	amyloid beta precursor like protein 2	
APOA1	NM_000039.1	apolipoprotein A-I	apolipoprotein A1	
APOA2	NM_001643.1	apolipoprotein A-II	apolipoprotein A2	
APOA4	NM_000482.3	apolipoprotein A-IV	apolipoprotein A4	
APOB	NM_000384.2	apolipoprotein B (including Ag(x) antigen)	apolipoprotein B	
APOC2	NM_000483.3	apolipoprotein C-II	apolipoprotein C2	
APOC3	NM_000040.1	apolipoprotein C-III	apolipoprotein C3	
APOH	NM_000042.2	B2G1;apolipoprotein H (beta-2-glycoprotein I)	apolipoprotein H	
APP	NM_000484.3	AD1;Alzheimer disease,amyloid beta (A4) precursor protein	amyloid beta precursor protein	
AQP8	NM_001169.2		aquaporin 8	
ARG1	NM_000045.3	arginase, liver	arginase 1	

ARHGAP35	NM_004491.4	GRLF1;glucocorticoid receptor DNA binding factor 1	Rho GTPase activating protein 35
ARHGEF2	NM_004723.2	rho/rac guanine nucleotide exchange factor (GEF) 2,Rho/Rac guanine nucleotide exchange factor (GEF) 2	Rho/Rac guanine nucleotide exchange factor 2
ARHGEF6	NM_004840.2	MRX46;mental retardation, X-linked 46,Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6	Rac/Cdc42 guanine nucleotide exchange factor 6
ARRB1	NM_004041.3	ARR1;arrestin, beta 1	arrestin beta 1
ATF4	NM_001675.2	TXREB;activating transcription factor 4 (tax-responsive enhancer element B67)	activating transcription factor 4
ATF7IP	NM_018179.3		activating transcription factor 7 interacting protein
ATG101	NM_021934.4	C12orf44;chromosome 12 open reading frame 44	autophagy related 101
ATG2B	NM_018036.5	C14orf103;chromosome 14 open reading frame 103,ATG2 autophagy related 2 homolog B ( <i>S. cerevisiae</i> )	autophagy related 2B
ATOX1	NM_004045.3	ATX1 (antioxidant protein 1, yeast) homolog 1,ATX1 antioxidant protein 1 homolog (yeast)	antioxidant 1 copper chaperone
ATP6V1E1	NM_001039367.1	ATP6E,ATP6V1E;ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump) 31kD,ATPase, H <sup>+</sup> transporting, lysosomal 31kDa, V1 subunit E isoform 1,ATPase, H <sup>+</sup> transporting, lysosomal 31kDa, V1 subunit E1	ATPase H <sup>+</sup> transporting V1 subunit E1
ATP6V1F	NM_001198909.1	ATPase, H <sup>+</sup> transporting, lysosomal 14kDa, V1 subunit F	ATPase H <sup>+</sup> transporting V1 subunit F
ATP6V1G2	NM_130463.2	ATP6G,ATP6G2;ATPase, H <sup>+</sup> transporting, lysosomal (vacuolar proton pump),ATPase, H <sup>+</sup> transporting, lysosomal 13kDa, V1 subunit G isoform 2,ATPase, H <sup>+</sup> transporting, lysosomal 13kDa, V1 subunit G2	ATPase H <sup>+</sup> transporting V1 subunit G2
ATP7A	NM_000052.4	MNK;Menkes syndrome,ATPase, Cu <sup>++</sup> transporting, alpha polypeptide	ATPase copper transporting alpha
AXL	NM_021913.2		AXL receptor tyrosine kinase
BANF1	NM_001143985.1		barrier to autointegration factor 1
BAX	NM_138761.3	BCL2-associated X protein,BCL2 associated X protein	BCL2 associated X, apoptosis regulator
BCAP31	NM_001139457.1		B cell receptor associated protein 31
BCL2	NM_000657.2	B-cell CLL/lymphoma 2,BCL2, apoptosis regulator	BCL2 apoptosis regulator
BCL2L1	NM_138578.1		BCL2 like 1
BIRC3	NM_182962.1	API2;baculoviral IAP repeat-containing 3	baculoviral IAP repeat containing 3
BLK	NM_001715.2	B lymphoid tyrosine kinase	BLK proto-oncogene, Src family tyrosine kinase
BMP10	NM_014482.1		bone morphogenetic protein 10
BPI	NM_001725.2	bactericidal/permeability-increasing protein	bactericidal permeability increasing protein
BRAF	NM_004333.3	v-raf murine sarcoma viral oncogene homolog B	B-Raf proto-oncogene, serine/threonine kinase
BRPF3	NM_015695.2	bromodomain and PHD finger containing, 3	bromodomain and PHD finger containing 3
BST2	NM_004335.2		bone marrow stromal cell antigen 2
C1S	NM_001734.2	complement component 1, s subcomponent	complement C1s
C3	NM_000064.2	complement component 3	complement C3
C3AR1	NM_004054.2	complement component 3a receptor 1	complement C3a receptor 1
C4BPA	NM_000715.3	C4BP;complement component 4-binding protein, alpha	complement component 4 binding protein alpha
C5	NM_001735.2	complement component 5	complement C5
C6	NM_000065.2	complement component 6	complement C6
C8A	NM_000562.2	complement component 8, alpha polypeptide,complement component 8 alpha subunit	complement C8 alpha chain
C8B	NM_000066.2	complement component 8, beta polypeptide	complement C8 beta chain
C9	NM_001737.3	complement component 9	complement C9
CALM1	NM_006888.3	CALML2;calmodulin 1 (phosphorylase kinase, delta)	calmodulin 1
CAPN5	NM_004055.4	VRNI;vitreoretinopathy, neovascular inflammatory	calpain 5
CARD9	NM_052814.3	caspase recruitment domain family, member 9	caspase recruitment domain family member 9
CASP12	NR_034061.1	CASP12P1;caspase 12 pseudogene 1,caspase 12	caspase 12 (gene/pseudogene)
CASP3	NM_004346.3	caspase 3, apoptosis-related cysteine protease,caspase 3, apoptosis-related cysteine peptidase	caspase 3
CASP4	NM_001225.3	caspase 4, apoptosis-related cysteine protease,caspase 4, apoptosis-related cysteine peptidase	caspase 4
CASP6	NM_032992.2	caspase 6, apoptosis-related cysteine protease,caspase 6, apoptosis-related cysteine peptidase	caspase 6
CASP7	NM_001227.3	caspase 7, apoptosis-related cysteine protease,caspase 7, apoptosis-related cysteine peptidase	caspase 7
CASP8	NM_001228.4	caspase 8, apoptosis-related cysteine protease,caspase 8, apoptosis-related cysteine peptidase	caspase 8
CAT	NM_001752.2		catalase
CBL	NM_005188.2	CBL2;Cas-Br-M (murine) ecotropic retroviral transforming sequence,Cbl proto-oncogene, E3 ubiquitin protein ligase	Cbl proto-oncogene
CCL13	NM_005408.2	SCYA13;small inducible cytokine subfamily A (Cys-Cys), member 13,chemokine (C-C motif) ligand 13	C-C motif chemokine ligand 13

CCL19	NM_006274.2	SCYA19;small inducible cytokine subfamily A (Cys-Cys), member 19,chemokine (C-C motif) ligand 19	C-C motif chemokine ligand 19
CCL2	NM_002982.3	SCYA2;small inducible cytokine A2 (monocyte chemotactic protein 1, homologous to mouse Sig-je),chemokine (C-C motif) ligand 2	C-C motif chemokine ligand 2
CCL4	NM_002984.2	LAG1,SCYA4;small inducible cytokine A4 (homologous to mouse Mip-1 $\beta$ ),chemokine (C-C motif) ligand 4	C-C motif chemokine ligand 4
CCN2	NM_001901.2	CTGF;connective tissue growth factor	cellular communication network factor 2
CCNA2	NM_001237.2	CCNA,CCN1	cyclin A2
CCR1	NM_001295.2	SCYAR1,CMKBR1;chemokine (C-C motif) receptor 1	C-C motif chemokine receptor 1
CCR2	NM_001123041.2	CMKBR2;chemokine (C-C motif) receptor 2	C-C motif chemokine receptor 2
CCR4	NM_005508.4	chemokine (C-C motif) receptor 4	C-C motif chemokine receptor 4
CCR7	NM_001838.2	CMKBR7,EBI1;chemokine (C-C motif) receptor 7	C-C motif chemokine receptor 7
CCS	NM_005125.1		copper chaperone for superoxide dismutase
CD14	NM_000591.2	CD14 antigen	CD14 molecule
CD163	NM_004244.4	CD163 antigen	CD163 molecule
CD180	NM_005582.2	LY64;lymphocyte antigen 64 (mouse) homolog, radioprotective, 105kD,CD180 antigen	CD180 molecule
CD19	XM_011545981.1	CD19 antigen	CD19 molecule
CD209	NM_001144899.1	CD209 antigen	CD209 molecule
CD244	NM_001166663.1	natural killer cell receptor 2B4,CD244 natural killer cell receptor 2B4,CD244 molecule, natural killer cell receptor	CD244 molecule
CD34	NM_001025109.1	CD34 antigen	CD34 molecule
CD36	NM_000072.3	CD36 antigen (collagen type I receptor, thrombospondin receptor),CD36 molecule (thrombospondin receptor)	CD36 molecule
CD3D	NM_000732.4	T3D;CD3d antigen, delta polypeptide (TiT3 complex),CD3d molecule, delta (CD3-TCR complex)	CD3d molecule
CD3E	NM_000733.2	CD3e antigen, epsilon polypeptide (TiT3 complex),CD3e molecule, epsilon (CD3-TCR complex)	CD3e molecule
CD3G	NM_000073.2	CD3g antigen, gamma polypeptide (TiT3 complex),CD3g molecule, gamma (CD3-TCR complex)	CD3g molecule
CD4	NM_000616.4	CD4 antigen (p55),T-cell surface glycoprotein CD4	CD4 molecule
CD44	NM_001001392.1	MIC4,MDU2,MDU3,CD44 antigen (homing function and Indian blood group system)	CD44 molecule (Indian blood group)
CD6	NM_001254751.1	CD6 antigen	CD6 molecule
CD68	NM_001251.2	CD68 antigen	CD68 molecule
CD84	NM_001184879.1	CD84 antigen (leukocyte antigen),CD84 molecule	CD84 molecule
CD86	NM_175862.3	CD28LG2;CD86 antigen (CD28 antigen ligand 2, B7-2 antigen)	CD86 molecule
CD8A	NM_001768.5	CD8;CD8 antigen, alpha polypeptide (p32),T-cell surface glycoprotein CD8 alpha chain	CD8a molecule
CD8B	NM_172099.2	CD8B1,CD8 antigen, beta polypeptide 1 (p37)	CD8b molecule
CDH2	NM_001792.3	NCAD;cadherin 2, type 1, N-cadherin (neuronal)	cadherin 2
CDH5	NM_001795.3	cadherin 5, type 2, VE-cadherin (vascular epithelium),cadherin 5, type 2 (vascular endothelium)	
CDK4	NM_000075.2		cyclin dependent kinase 4
CDKN1A	NM_000389.2	CDKN1;cyclin-dependent kinase inhibitor 1A (p21, Cip1)	cyclin dependent kinase inhibitor 1A
CDKN2C	NM_001262.2	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	cyclin dependent kinase inhibitor 2C
CDON	NM_016952.4	Cdon homolog (mouse)	cell adhesion associated, oncogene regulated
CEACAM3	NM_001815.3	CGM1;carcinoembryonic antigen-related cell adhesion molecule 3	carcinoembryonic antigen related cell adhesion molecule 3
CEBPA	NM_004364.2	CEBP,CCAAT/enhancer binding protein (C/EBP),alpha,CCAAT/enhancer binding protein alpha	CCAAT enhancer binding protein alpha
CETP	NM_000078.2	cholesteryl ester transfer protein, plasma	cholesteryl ester transfer protein
CFH	NM_001014975.2	HF,Hf1,Hf2;factor 1 (complement)	complement factor H
		HFL1,CFHL1,CFHR1P,HFL2,CFHL1P;H factor (complement)-like 1,complement factor H-related 1 pseudogene,H factor (complement)-like 2,complement factor H-related	
CFHR1	NM_002113.2	1	complement factor H related 1
CFHR4	NM_001201550.2	CFHL4;complement factor H-related 4	complement factor H related 4
CFHR5	NM_030787.3	CFHL5;complement factor H-related 5	complement factor H related 5
CFI	NM_000204.3	IF;I factor (complement)	complement factor I
CFLAR	NM_001127183.1	CASP8AP1;CASP8 and FADD-like apoptosis regulator	CASP8 and FADD like apoptosis regulator
			sub-maximal isoform coverage due to non-overlapping variants
CFTR	NM_000492.3	CF,ABCC7;cystic fibrosis transmembrane conductance regulator, ATP-binding cassette (sub-family C, member 7)	cystic fibrosis transmembrane conductance regulator
CHI3L1	NM_001276.2	chitinase 3-like 1 (cartilage glycoprotein-39)	chitinase 3 like 1
CHMP4B	NM_176812.4	C20orf178;chromosome 20 open reading frame 178,chromatin modifying protein 4B	charged multivesicular body protein 4B
CHUK	NM_001278.3	TCF16;conserved helix-loop-helix ubiquitous kinase	component of inhibitor of nuclear factor kappa B kinase complex

CIITA	NM_000246.3	MHC2TA;MHC class II transactivator, class II, major histocompatibility complex, transactivator	class II major histocompatibility complex transactivator
CKAP4	NM_006825.3	cytoskeleton-associated protein 4	cytoskeleton associated protein 4
COL10A1	NM_000493.3	collagen, type X, alpha 1	collagen type X alpha 1 chain
COL14A1	NM_021110.1	UND;undulin;collagen, type XIV, alpha 1	collagen type XIV alpha 1 chain
COL16A1	NM_001856.3	collagen, type XVI, alpha 1	collagen type XVI alpha 1 chain
COL1A1	NM_000088.3	collagen, type I, alpha 1	collagen type I alpha 1 chain
COL1A2	NM_000089.3	OI4;osteogenesis imperfecta type IV,collagen, type I, alpha 2,collagen type I alpha 2	collagen type I alpha 2 chain
COL3A1	NM_000090.3	EDS4A;Ehlers-Danlos syndrome type IV, autosomal dominant,collagen, type III, alpha 1	collagen type III alpha 1 chain
COL4A1	NM_001845.4	collagen, type IV, alpha 1	collagen type IV alpha 1 chain
COL4A2	NM_001846.2	collagen type IV alpha 2	collagen type IV alpha 2 chain
COL5A1	NM_000093.3	collagen type V alpha 1	collagen type V alpha 1 chain
COL5A3	NM_015719.3	collagen type V alpha 3	collagen type V alpha 3 chain
COL6A3	NM_004369.3	collagen, type VI, alpha 3	collagen type VI alpha 3 chain
COL6A5	NR_022012.2	COL29A1;collagen, type XXIX, alpha 1,collagen, type VI, alpha 5,collagen type VI alpha 5	collagen type VI alpha 5 chain
COL7A1	NM_000094.2	EBDCT,EBD1,EBR1;epidermolysis bullosa, dystrophic, dominant and recessive,collagen, type VII, alpha 1	collagen type VII alpha 1 chain
COX4I2	NM_032609.2	COX4L2;cytochrome c oxidase subunit IV isoform 2, cytochrome c oxidase subunit IV isoform 2 (lung)	cytochrome c oxidase subunit 4I2
COX6A1	NM_004373.2	COX6A;cytochrome c oxidase subunit VIa polypeptide 1 COX6B;cytochrome c oxidase subunit Vib, cytochrome c oxidase subunit Vib polypeptide 1 (ubiquitous),cytochrome c oxidase subunit Vibl polypeptide 1 (ubiquitous)	cytochrome c oxidase subunit 6A1
COX6B1	NM_001863.4	cytochrome c oxidase subunit 6B1	
COX7B	NM_001866.2	cytochrome c oxidase subunit VIIb	
COX7C	NM_001867.2	cytochrome c oxidase subunit VIIc	
CPA3	NM_001870.2	carboxypeptidase A3 (mast cell)	carboxypeptidase A3
CPB2	NM_001872.3	carboxypeptidase B2 (plasma, carboxypeptidase U),carboxypeptidase B2 (plasma) carboxypeptidase N, polypeptide 1, 50kD,carboxypeptidase N, polypeptide 1	carboxypeptidase B2
CPN1	NM_001308.2	carboxypeptidase N subunit 1	
CPT1A	NM_001876.3	CPT1;carnitine palmitoyltransferase 1A (liver)	carnitine palmitoyltransferase 1A
CR1	XM_006711166.2	complement component (3b/4b) receptor 1, including Knops blood group system,complement component (3b/4b) receptor 1 (Knops blood group),complement component 3b/4b receptor 1 (Knops blood group)	complement C3b/C4b receptor 1 (Knops blood group)
CREB1	NM_004379.3	cAMP responsive element binding protein 1	
CREB3	NM_006368.4	cAMP responsive element binding protein 3 (luman)	
CREBBP	NM_004380.2	RSTS;Rubinstein-Taybi syndrome	
CRK	NM_016823.2	v-crk avian sarcoma virus CT10 oncogene homolog	CRK proto-oncogene, adaptor protein
CRKL	NM_005207.3	v-crk avian sarcoma virus CT10 oncogene homolog-like	
CRP	NM_000567.2	C-reactive protein, pentraxin-related FMS;McDonough feline sarcoma viral (v-fms) oncogene homolog	CRK like proto-oncogene, adaptor protein C-reactive protein
CSF1R	NM_005211.2	colony stimulating factor 1 receptor	
CSF3R	NM_000760.3	CD114;colony stimulating factor 3 receptor (granulocyte)	colony stimulating factor 3 receptor
CSNK1A1	NM_001892.4	casein kinase 1, alpha 1	casein kinase 1 alpha 1
CSNK1D	NM_001893.3	casein kinase 1, delta	casein kinase 1 delta
CSNK1E	NM_152221.2	casein kinase 1, epsilon	casein kinase 1 epsilon
CSNK1G3	NM_001031812.1	casein kinase 1, gamma 3	casein kinase 1 gamma 3
CSNK2A1	NM_177559.2	casein kinase 2, alpha 1 polypeptide	casein kinase 2 alpha 1
CSNK2B	NM_001320.5	casein kinase 2, beta polypeptide	casein kinase 2 beta
CTBP2	NM_001329.2	C-terminal binding protein 2	
CTNNB1	NM_001098210.1	CTNNB;catenin (cadherin-associated protein), beta 1 (88kD),catenin (cadherin-associated protein), beta 1, 88kDa,catenin (cadherin-associated protein), beta 1	catenin beta 1
CTNND1	NM_001331.2	CTNND;catenin (cadherin-associated protein), delta 1	catenin delta 1
CTSB	NM_147780.2	cathepsin B	
CTSD	NM_001909.3	CPSD;cathepsin D (lysosomal aspartyl protease)	cathepsin D
CTSL	NM_001912.4	CTS1;cathepsin L1	cathepsin L
CTSW	NM_001335.3	cathepsin W (lymphotoxin)	cathepsin W
CUL1	NM_003592.2	cullin 1	
CUL3	NM_003590.2	cullin 3	
CXCL10	NM_001565.2	INP10,SCYB10;small inducible cytokine subfamily B (Cys-X-Cys), member 10,chemokine (C-X-C motif) ligand 10	C-X-C motif chemokine ligand 10
CXCL11	NM_005409.4	SCYB9B,SCYB11;small inducible cytokine subfamily B (Cys-X-Cys), member 11,chemokine (C-X-C motif) ligand 11	C-X-C motif chemokine ligand 11
CXCL12	NM_199168.3	SDF1A,SDF1B,SDF1;stromal cell-derived factor 1,chemokine (C-X-C motif) ligand 12	C-X-C motif chemokine ligand 12
CXCL16	NM_001100812.1	chemokine (C-X-C motif) ligand 16	C-X-C motif chemokine ligand 16
CXCL2	NM_002089.3	GRO2;GRO2 oncogene,chemokine (C-X-C motif) ligand 2	C-X-C motif chemokine ligand 2

CXCL8	NM_000584.2	IL8;interleukin 8,chemokine (C-X-C motif) ligand 8 CMKAR1,IL8RA;interleukin 8 receptor, alpha,chemokine	C-X-C motif chemokine ligand 8	
CXCR1	NM_000634.2	(C-X-C motif) receptor 1 GPR9;G protein-coupled receptor 9,chemokine (C-X-C motif) receptor 3	C-X-C motif chemokine receptor 1 C-X-C motif chemokine receptor 3	
CXCR3	NM_001504.1	GPR9;G protein-coupled receptor 9,chemokine (C-X-C motif) receptor 4 (fusin),chemokine (C-X-C motif) receptor 4	C-X-C motif chemokine receptor 4	
CXCR4	NM_003467.2	chemokine (C-X-C motif) receptor 6	C-X-C motif chemokine receptor 6	
CXCR6	NM_006564.1	CGD;chronic granulomatous disease,cytochrome b-245, beta polypeptide	cytochrome b-245 beta chain	
CYBB	NM_000397.3	cytochrome c, somatic	cytochrome c, somatic	
CYCS	NM_018947.4	CYFIP1	NM_014608.2	cytoplasmic FMR1 interacting protein 1
CYP1A1	NM_000499.3	CYP1;cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 1, cytochrome P450, family 1, subfamily A, polypeptide 1	cytochrome P450 family 1 subfamily A member 1	
CYP1A2	NM_000761.3	cytochrome P450, subfamily I (aromatic compound-inducible), polypeptide 2, cytochrome P450, family 1, subfamily A, polypeptide 2	cytochrome P450 family 1 subfamily A member 2	
CYP27A1	NM_000784.3	CYP27;cytochrome P450, subfamily XXVIIA (steroid 27-hydroxylase, cerebrotendinous xanthomatosis), polypeptide 1, cytochrome P450, family 27, subfamily A, polypeptide 1	cytochrome P450 family 27 subfamily A member 1	
CYP2C19	NM_000769.1	CYP2C;cytochrome P450, subfamily IIC (mephennytoin 4-hydroxylase), polypeptide 19, cytochrome P450, family 2, subfamily C, polypeptide 19	cytochrome P450 family 2 subfamily C member 19	
CYP2C8	NM_000770.3	CYP2C;cytochrome P450, subfamily IIC (mephennytoin 4-hydroxylase), polypeptide 8, cytochrome P450, family 2, subfamily C, polypeptide 8	cytochrome P450 family 2 subfamily C member 8	
CYP2C9	NM_000771.3	CYP2C10;cytochrome P450, subfamily IIC (mephennytoin 4-hydroxylase), polypeptide 9, cytochrome P450, family 2, subfamily C, polypeptide 9	cytochrome P450 family 2 subfamily C member 9	
CYP2E1	NM_000773.3	CYP2E;cytochrome P450, subfamily IIE (ethanol-inducible), polypeptide 1, cytochrome P450, family 2, subfamily E, polypeptide 1	cytochrome P450 family 2 subfamily E member 1	
CYP2J2	NM_000775.2	cytochrome P450, subfamily IIJ (arachidonic acid epoxigenase) polypeptide 2, cytochrome P450, family 2, subfamily J, polypeptide 2	cytochrome P450 family 2 subfamily J member 2	
CYP4A11/22	NM_001010969.3	CYP7;cytochrome P450, subfamily VIIA (cholesterol 7 alpha-monoxygenase), polypeptide 1, cytochrome P450, family 7, subfamily A, polypeptide 1	cytochrome P450 family 4 subfamily A member 22	
CYP7A1	NM_000780.3	CYP7;cytochrome P450, subfamily VIIIB (sterol 12-alpha-hydroxylase), polypeptide 1, cytochrome P450, family 8, subfamily B, polypeptide 1	cytochrome P450 family 7 subfamily A member 1	
CYP8B1	NM_004391.2	CYP8;cytochrome P450, subfamily VIIIIB (sterol 12-alpha-hydroxylase), polypeptide 1, cytochrome P450, family 8, subfamily B, polypeptide 1	cytochrome P450 family 8 subfamily B member 1	
DAPK1	NM_001288729.1	death-associated protein kinase 1	death associated protein kinase 1	
DAXX	NM_001350.3	death-associated protein 6	death domain associated protein	
DDIT3	NM_004083.4	DNA-damage-inducible transcript 3	DNA damage inducible transcript 3	
DDR2	NM_006182.2	TYRO10,NTRKR3;discoidin domain receptor family, member 2	discoidin domain receptor tyrosine kinase 2	
DEPDC5	NM_001136029.2	DEP domain containing 5	DEP domain containing 5	
DERL1	NM_001134671.2	Der1-like domain family, member 1	derlin 1	
DERL2	NM_016041.3	Der1-like domain family, member 2	derlin 2	
DIAPH1	NM_005219.4	DFNA1;diaphanous (Drosophila, homolog) 1,diaphanous homolog 1 (Drosophila)	diaphanous related formin 1	
DLL1	NM_005618.3	delta (Drosophila)-like 1,delta-like 1 (Drosophila)	delta like canonical Notch ligand 1	
DLL4	NM_019074.2	delta-like 4 homolog (Drosophila),delta-like 4 (Drosophila)	delta like canonical Notch ligand 4	
DOCK1	NM_001290223.1	dedicator of cyto-kinesis 1	dedicator of cytokinesis 1	
DOCK2	NM_004946.2	dedicator of cyto-kinesis 2	dedicator of cytokinesis 2	
DUSP7	NM_001947.2	DUSP8	NM_004420.2	dual specificity phosphatase 7
DUSP8	NM_004420.2	C11orf81;chromosome 11 open reading frame 81	dual specificity phosphatase 8	
DYNLL1	NM_003746.2	DNCL1;dynein, cytoplasmic, light polypeptide 1	dynein light chain LC8-type 1	
E2F4	NM_001950.3	E2F transcription factor 4, p107/p130-binding	E2F transcription factor 4	
EEF2K	NM_013302.3	ERBB;epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog)	eukaryotic elongation factor 2 kinase	
EGFR	NM_201282.1	ERBB;epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog)	epidermal growth factor receptor	
EGR1	NM_001964.2	ERBB;epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog)	early growth response 1	
EHMT1	NM_024757.3	EHMT1-IT1;euchromatic histone methyltransferase 1,EHMT1 intronic transcript 1	euchromatic histone lysine methyltransferase 1	
ELN	NM_001081754.1	elastin	elastin	
ELOVL6	NM_001130721.1	ELOVL family member 6, elongation of long chain fatty acids (FEN1/Elo2, SUR4/Elo3-like, yeast)	ELOVL fatty acid elongase 6	
EOMES	NM_005442.2	eomesodermin (Xenopus laevis) homolog	eomesodermin	
EP300	NM_001429.2	E1A binding protein p300	E1A binding protein p300	
EP400	NM_015409.3	E1A binding protein p400	E1A binding protein p400	
EPAS1	NM_001430.3	endothelial PAS domain protein 1	endothelial PAS domain protein 1	
EPHX2	NM_001979.5	epoxide hydrolase 2, cytoplasmic	epoxide hydrolase 2	
ERC1	NM_178040.1	RAB6IP2;RAB6 interacting protein 2	ELKS/RAB6-interacting/CAST family member 1	
ERN1	NM_001433.2	ER to nucleus signalling 1	endoplasmic reticulum to nucleus signaling 1	

ERO1A	NM_014584.1	ERO1L;ERO1 (S. cerevisiae)-like,ERO1-like (S. cerevisiae)	endoplasmic reticulum oxidoreductase 1 alpha
ERP29	NM_001034025.1	C12orf8;chromosome 12 open reading frame 8	endoplasmic reticulum protein 29
F11R	NM_144503.1	JAM1;junctional adhesion molecule 1	F11 receptor
F5	NM_000130.2	coagulation factor V (proaccelerin, labile factor)	coagulation factor V
F8	NM_019863.2	F8C;coagulation factor VIII, procoagulant component	coagulation factor VIII
FABP4	NM_001442.2		fatty acid binding protein 4
FABP5	NM_001444.1	fatty acid binding protein 5 (psoriasis-associated)	fatty acid binding protein 5
FADD	NM_003824.2	Fas (TNFRSF6)-associated via death domain	Fas associated via death domain
FAM30A	NR_026800.2	C14orf110,KIAA0125;chromosome 14 open reading frame 110,KIAA0125	family with sequence similarity 30 member A
FAP	NM_004460.2	fibroblast activation protein, alpha	fibroblast activation protein alpha
		FA51,APT1,TNFRSF6;tumor necrosis factor receptor superfamily, member 6,Fas (TNF receptor superfamily, member 6)	
FAS	NM_000043.4	Fas cell surface death receptor	
FASN	NM_004104.4	fatty acid synthase	
FBP1	NM_000507.3	FBP1;fructose-1,6-bisphosphatase 1	fructose-bisphosphatase 1
FCAR	NM_002000.2	Fc fragment of IgA, receptor for	Fc fragment of IgA receptor
FCER1A	NM_002001.2	FCE1A;Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide	Fc fragment of IgE receptor Ia
FCER1G	NM_004106.1	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	Fc fragment of IgE receptor Ig
FCGR3A/B	NM_000570.4	FCGR3,FCG3;Fc fragment of IgG, low affinity IIb, receptor for (CD16),Fc fragment of IgG, low affinity IIb, receptor (CD16b)	Fc fragment of IgG receptor IIb
		SPAP1,SH2 domain-containing phosphatase anchor	
FCRL2	NM_001159488.1	protein 1,Fc receptor-like 2	Fc receptor like 2
FGA	NM_021871.2	fibrinogen, A alpha polypeptide	fibrinogen alpha chain
FGB	NM_005141.3	fibrinogen, B beta polypeptide	fibrinogen beta chain
FGD2	NM_173558.3	FGD1 family, member 2	FYVE, RhoGEF and PH domain containing 2
FGF19	NM_005117.2		fibroblast growth factor 19
FGF2	NM_002006.4	FGFB;fibroblast growth factor 2 (basic)	fibroblast growth factor 2
FGF21	NM_019113.2		fibroblast growth factor 21
FGG	NM_000509.4	fibrinogen, gamma polypeptide	fibrinogen gamma chain
FGL2	NM_006682.2	fibrinogen-like 2	fibrinogen like 2
FLI1	NM_001167681.2	Friend leukemia virus integration 1	Fli-1 proto-oncogene, ETS transcription factor
		FLN1,LRS1;filamin B, beta (actin binding protein 278),Larsen syndrome 1 (autosomal dominant),filamin B,	
FLNB	NM_001164317.1	beta	filamin B
		FLT;fms-related tyrosine kinase 1 (vascular endothelial growth factor/vascular permeability factor receptor),fms-related tyrosine kinase 1	
FLT1	NM_002019.4	FLT,fms-related tyrosine kinase 1	fms related tyrosine kinase 1
FLT4	NM_002020.1	fms-related tyrosine kinase 4	fms related tyrosine kinase 4
FN1	NM_212482.1		fibronectin 1
FNIP2	NM_020840.1		folliculin interacting protein 2
		IPEX;immune dysregulation, polyendocrinopathy, enteropathy, X-linked	
FOXP3	NM_014009.3		forkhead box P3
FPR1	NM_002029.3		formyl peptide receptor 1
FRS2	NM_006654.3		fibroblast growth factor receptor substrate 2
FST	NM_006350.2		follistatin
		PCSK3,FUR,PACE;paired basic amino acid cleaving enzyme (furin, membrane associated receptor protein),furin (paired basic amino acid cleaving enzyme)	
FURIN	NM_002569.2		furin, paired basic amino acid cleaving enzyme
		frizzled (Drosophila) homolog 2,frizzled homolog 2 (Drosophila),frizzled 2, seven transmembrane spanning receptor,frizzled family receptor 2	
FZD2	NM_001466.2		frizzled class receptor 2
		C2orf31;frizzled (Drosophila) homolog 5,chromosome 2 open reading frame 31,frizzled homolog 5 (Drosophila),frizzled 5, seven transmembrane spanning receptor,frizzled family receptor 5	
FZD5	NM_003468.2		frizzled class receptor 5
GAB1	NM_002039.3		GRB2 associated binding protein 1
GAS1	NM_002048.2		growth arrest specific 1
GATA3	NM_001002295.1	GATA-binding protein 3	GATA binding protein 3
GBP4	NM_052941.4		guanylate binding protein 4
GBP5	NM_052942.3		guanylate binding protein 5
		NACGT2;glucosaminyl (N-acetyl) transferase 1, core 2 (beta-1,6-N-acetylglucosaminyltransferase),glucosaminyl	
GCNT1	NM_001097633.1	(N-acetyl) transferase 1, core 2	glucosaminyl (N-acetyl) transferase 1
		GLI;glioma-associated oncogene homolog 1 (zinc finger protein),glioma-associated oncogene family zinc finger 1	
GLI1	NM_005269.1		GLI family zinc finger 1
		GLI-Kruppel family member GLI2,glioma-associated	
GLI2	NM_005270.4	oncogene family zinc finger 2	GLI family zinc finger 2
		GCP5,PHS,Greig cephalopolysyndactyly syndrome,GLI-Kruppel family member GLI3,glioma-associated oncogene	
GLI3	NM_000168.5	family zinc finger 3	GLI family zinc finger 3
GLP1R	NM_002062.3	glucagon-like peptide 1 receptor	glucagon like peptide 1 receptor
		guanine nucleotide binding protein (G protein), beta polypeptide 4	G protein subunit beta 4
GNB4	NM_021629.3		
		GNG2	guanine nucleotide binding protein (G protein), gamma 2 G protein subunit gamma 2

GNLY	NM_012483.2	LAG2 GNPTA;N-acetylglucosamine-1-phosphate transferase, alpha and beta subunits	granulosin N-acetylglucosamine-1-phosphate transferase subunits alpha and beta
GOT2	NM_002080.2	glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2),glutamic-oxaloacetic transaminase 2, mitochondrial	glutamic-oxaloacetic transaminase 2
GPC4	NM_001448.2		glycan 4
GPR65	NM_003608.2		G protein-coupled receptor 65
GPX2	NM_002083.2	glutathione peroxidase 2 (gastrointestinal)	glutathione peroxidase 2
GPX3	NM_002084.3	glutathione peroxidase 3 (plasma)	glutathione peroxidase 3
GRB10	NM_001001555.2	growth factor receptor-bound protein 10	growth factor receptor bound protein 10
		CKTSF1B1,CRAC1;cysteine knot superfamily 1, BMP antagonist 1,gremlin 1, cysteine knot superfamily, homolog ( <i>Xenopus laevis</i> ),gremlin 1,colorectal adenoma	
GREM1	NM_013372.5	and carcinoma 1	gremlin 1, DAN family BMP antagonist
GSK3B	NM_002093.2	HFSP,CTLA3;granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)	glycogen synthase kinase 3 beta
GZMA	NM_006144.2	CTLA1,CSPB;granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)	granzyme A
GZMB	NM_004131.3		granzyme B
GZMH	NM_033423.3	CTSGL2;granzyme H (cathepsin G-like 2, protein h-CCPX)	granzyme H
HADH	NM_001184705.2	HADHSC;L-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain,hydroxyacyl-Coenzyme A dehydrogenase	hydroxyacyl-CoA dehydrogenase
		hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit,hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), alpha subunit	hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex
HADHA	NM_000182.4		subunit alpha
HAVCR1	NM_001173393.1	GPR109A;G protein-coupled receptor 109A	hepatitis A virus cellular receptor 1
HCAR2	NM_177551.3	HFC1,MRX3;mental retardation, X-linked 3,host cell factor C1 (VP16-accessory protein)	hydroxycarboxylic acid receptor 2
HCFC1	NM_005334.2		HCAR3 (NM_006018)
HCK	NM_002110.2	hemopoietic cell kinase	HCK proto-oncogene, Src family tyrosine kinase
HDAC4	NM_006037.3	BDMR;brachydactyl-mental retardation syndrome	histone deacetylase 4
HDC	NM_002112.3		histidine decarboxylase
HIF1A	NM_001530.2	hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)	hypoxia inducible factor 1 subunit alpha
HIF3A	NM_152796.2		hypoxia inducible factor 3 subunit alpha
HIKESHI	NM_016401.4	C11orf73;chromosome 11 open reading frame 73	heat shock protein nuclear import factor hikeshi
HKDC1	NM_025130.3		hexokinase domain containing 1
HLA-A	NM_002116.5		major histocompatibility complex, class I, A
HLA-B	NM_005514.6	AS;ankylosing spondylitis	major histocompatibility complex, class I, B
HLA-DPA1	NM_03554.2	HLA-DP1A	major histocompatibility complex, class II, DP alpha 1
HLA-DQA1	NM_02122.3	HLA-DQA	major histocompatibility complex, class II, DQ alpha 1
HLA-DQA2	NM_020056.4	HLA-DXA	major histocompatibility complex, class II, DQ alpha 2
HLA-DRA	NM_019111.3	HLA-DRA1	major histocompatibility complex, class II, DR alpha
HLA-E	NM_005516.4		major histocompatibility complex, class I, E
HLA-F	NM_001098479.1		major histocompatibility complex, class I, F
HLA-G	NM_002127.4	HLA-G histocompatibility antigen, class I, G 3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2 (mitochondrial),3-hydroxy-3-methylglutaryl-CoA synthase	major histocompatibility complex, class I, G
HMGCS2	NM_005518.3	2 (mitochondrial)	3-hydroxy-3-methylglutaryl-CoA synthase 2
HMOX1	NM_002133.2	heme oxygenase (decycling) 1	heme oxygenase 1
HSBP1	NM_001537.2		heat shock factor binding protein 1
HSD11B1	NM_181755.1	HSD11B,HSD11;hydroxysteroid (11-beta) dehydrogenase 1	hydroxysteroid 11-beta dehydrogenase 1
HSD17B4	NM_000414.2	hydroxysteroid (17-beta) dehydrogenase 4	hydroxysteroid 17-beta dehydrogenase 4
		HSPC1,HSPCA;heat shock 90kD protein 1, alpha,heat shock 90kDa protein 1, alpha,heat shock protein 90kDa alpha	
HSP90AA1	NM_001017963.2	alpha (cytosolic), class A member 1	heat shock protein 90 alpha family class A member 1
		HSPC2,HSPCB;heat shock 90kD protein 1, beta,heat shock 90kDa protein 1, beta,heat shock protein 90kDa alpha (cytosolic), class B member 1	
HSP90AB1	NM_007355.3		heat shock protein 90 alpha family class B member 1
HSPG2	NM_005529.5	SJS1,Schwartz-Jampel syndrome 1 (chondrodstrophic myotonia)	heparan sulfate proteoglycan 2
HTRA2	NM_013247.4	PRSS25;protease, serine, 25	HtrA serine peptidase 2
HVCN1	NM_032369.3	hydrogen voltage-gated channel 1	hydrogen voltage gated channel 1
ICAM1	NM_000201.2		intercellular adhesion molecule 1
ICOS	NM_012092.2	inducible T-cell costimulator	inducible T cell costimulator
IFI27	NM_005532.3		interferon alpha inducible protein 27
IFI35	NM_005533.3	interferon-induced protein 35	interferon induced protein 35
IFI6	NM_002038.3	G1P3;interferon, alpha-inducible protein (clone IFI-6-16)	interferon alpha inducible protein 6
IFNG	NM_000619.2		interferon gamma
IFNGR1	NM_000416.2	IFNGR	interferon gamma receptor 1
IGF1	NM_000618.3	insulin-like growth factor 1 (somatomedin C)	insulin like growth factor 1
IGF1R	NM_000875.4	insulin-like growth factor 1 receptor	insulin like growth factor 1 receptor
IHH	NM_002181.2	Indian hedgehog ( <i>Drosophila</i> ) homolog	Indian hedgehog signaling molecule
		inhibitor of kappa light polypeptide gene enhancer in B-	
IKBKB	NM_001556.1	cells, kinase beta	inhibitor of nuclear factor kappa B kinase subunit beta
IL10	NM_000572.2		interleukin 10

IL10RA	NM_001558.2	IL10R;interleukin 10 receptor, alpha	interleukin 10 receptor subunit alpha
IL11	NM_000641.2		interleukin 11
IL12RB2	NM_001559.2	interleukin 12 receptor, beta 2	interleukin 12 receptor subunit beta 2
IL13	NM_002188.2		interleukin 13
IL17A	NM_002190.2	CTLA8,IL17;interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8)	interleukin 17A
IL18R1	NM_003855.3		interleukin 18 receptor 1
IL1B	NM_000576.2		interleukin 1 beta
IL1R1	NM_001320984.1	IL1R,IL1RA;interleukin 1 receptor, type I	interleukin 1 receptor type 1
IL1RAP	NM_002182.2		interleukin 1 receptor accessory protein
		FNDC6;fibronectin type III domain containing 6,interleukin 20 receptor beta,interleukin 20 receptor beta subunit	
IL20RB	NM_144717.2		interleukin 20 receptor subunit beta
IL21R	NM_021798.2		interleukin 21 receptor
IL27	NM_145659.3	IL30;interleukin 30	interleukin 27
IL2RA	NM_000417.1	IL2R,IDDIM10;insulin-dependent diabetes mellitus 10,interleukin 2 receptor, alpha	interleukin 2 receptor subunit alpha
IL2RB	NM_000878.2	IL15RB;interleukin 15 receptor, beta,interleukin 2 receptor, beta	interleukin 2 receptor subunit beta
IL33	NM_033439.2	C9orf26;chromosome 9 open reading frame 26 (NF-HEV)	interleukin 33
IL4	NM_000589.2		interleukin 4
IL6	NM_000600.3	IFNB2;interleukin 6 (interferon, beta 2)	interleukin 6
		interleukin 6 signal transducer (gp130, oncostatin M receptor)	interleukin 6 signal transducer
IL6ST	NM_002184.2		interleukin 6 signal transducer
ILK	NM_004517.2	integrin-linked kinase	integrin linked kinase
		inositol polyphosphate-5-phosphatase, 145kD,inositol polyphosphate-5-phosphatase, 145kDa	
INPP5D	NM_005541.3		inositol polyphosphate-5-phosphatase D
INSR	NM_000208.2	insulin receptor	
IQGAP1	NM_003870.3		IQ motif containing GTPase activating protein 1
IRAK3	NM_007199.1	interleukin-1 receptor-associated kinase 3	interleukin 1 receptor associated kinase 3
IRF1	NM_002198.2		interferon regulatory factor 1
IRF3	NM_001571.5		interferon regulatory factor 3
IRF4	NM_002460.1	MUM1	interferon regulatory factor 4
IRF8	NM_002163.2	ICSBP1;interferon consensus sequence binding protein 1	interferon regulatory factor 8
IRS1	NM_005544.2		insulin receptor substrate 1
ISG15	NM_005101.3	G1P2;interferon, alpha-inducible protein (clone IFI-15K)	ISG15 ubiquitin like modifier
ISG20	NM_002201.5	interferon stimulated exonuclease gene 20kDa	interferon stimulated exonuclease gene 20
		itchy (mouse homolog) E3 ubiquitin protein ligase,itchy	
ITCH	NM_001257138.1	E3 ubiquitin protein ligase homolog (mouse)	itchy E3 ubiquitin protein ligase
ITGA1	NM_181501.1	integrin, alpha 1	integrin subunit alpha 1
		CD49D;integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)	
ITGA4	NM_000885.4		integrin subunit alpha 4
ITGA5	NM_002205.2	FNRA;integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	integrin subunit alpha 5
ITGA9	NM_002207.2	integrin, alpha 9	integrin subunit alpha 9
ITGB1	NM_002211.3	FNRB,MSK12,MDF2;integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	integrin subunit beta 1
ITGB3	NM_000212.2	GP3A;integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	integrin subunit beta 3
ITPR2	NM_002223.2	inositol 1,4,5-triphosphate receptor, type 2,inositol 1,4,5-trisphosphate receptor, type 2	inositol 1,4,5-trisphosphate receptor type 2
JAG1	NM_000214.2	AGS,JAGL1;Alagille syndrome,jagged 1	jagged canonical Notch ligand 1
JAG2	NM_145159.1	jagged 2	jagged canonical Notch ligand 2
JAK1	NM_002227.1	JAK1B	Janus kinase 1
JAK2	NM_004972.3		Janus kinase 2
JMD4	NM_001161465.1		jumonji domain containing 4
JUN	NM_002228.3	v-jun avian sarcoma virus 17 oncogene homolog,jun oncogene	Jun proto-oncogene, AP-1 transcription factor subunit
KANSL1	NM_001193465.1	KIAA1267;KIAA1267	KAT8 regulatory NSL complex subunit 1
KAT6A	NM_001099412.1	ZNF220,RUNXBP2,MYST3;runt-related transcription factor binding protein 2,MYST histone acetyltransferase (monocytic leukemia) 3,K(lysine) acetyltransferase 6A	lysine acetyltransferase 6A
		FBXL11;F-box and leucine-rich repeat protein 11,lysine C5orf7,JMD1B;chromosome 5 open reading frame 7,jumonji domain containing 1B,lysine (K)-specific demethylase 3B	
KDM2A	NM_012308.1		lysine demethylase 2A
KDM3B	NM_016604.3		lysine demethylase 3B
KDM5D	NM_001146705.1	HYA,HY,SMCY,JARID1D;jumonji, AT rich interactive domain 1D (RBP2-like),Smcy homolog, Y-linked (mouse),jumonji, AT rich interactive domain 1D,lysine (K)-specific demethylase 5D	lysine demethylase 5D
KDR	NM_002253.2	kinase insert domain receptor (a type III receptor tyrosine kinase)	kinase insert domain receptor
KIF3A	NM_007054.5		kinesin family member 3A
			KIR2DL2 (NM_014219), KIR2DS4 (NM_001281971;NM_012314;NM_001281972), KIR2DS2 (NM_001291701;NM_012312;NM_001291695)
KIR2DL3	NM_015868.2	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 3	killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 3
KIR3DL1/2	NM_001322168.1	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2	killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2
KLF5	NM_001730.3	BTEB2;Kruppel-like factor 5 (intestinal)	Kruppel like factor 5
KLKB1	NM_000892.3	KLK3;kallikrein B, plasma (Fletcher factor) 1	kallikrein B1

KLRB1	NM_002258.2	NKR;killer cell lectin-like receptor subfamily B, member 1 CD94;killer cell lectin-like receptor subfamily D, member 1	killer cell lectin like receptor B1
KLRD1	NM_007334.2	1 D12S2489E;DNA segment on chromosome 12 (unique) 2489 expressed sequence;killer cell lectin-like receptor subfamily K, member 1	killer cell lectin like receptor D1
KLRK1	NM_007360.3		killer cell lectin like receptor K1
		TNRC21;MLL2;trinucleotide repeat containing 21,myeloid/lymphoid or mixed-lineage leukemia 2,lysine (K)-specific methyltransferase 2D	
KMT2D	NM_003482.3	KNG1;BDK;kininogen	lysine methyltransferase 2D kininogen 1
		KRAS2;v-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog,v-Ki-ras2 Kirsten rat sarcoma viral oncogene	
KRAS	NM_033360.2	homolog,Kirsten rat sarcoma viral oncogene homolog	KRAS proto-oncogene, GTPase
LAG3	NM_002286.5	lymphocyte-activation gene 3	lymphocyte activating 3
LAMA3	NM_000227.3	LAMNA;laminin, alpha 3 (nican (150kD), BM600 (150kD), epilegrin),laminin, alpha 3	laminin subunit alpha 3
LAMC1	NM_002293.3	LAMB2;laminin, gamma 1 (formerly LAMB2)	laminin subunit gamma 1
LAMTOR2	NM_001145264.1	ROBLD3;roadblock domain containing 3	late endosomal/lysosomal adaptor, MAPK and MTOR activator 2
LAMTOR4	NM_001008395.2	C7orf59;chromosome 7 open reading frame 59	late endosomal/lysosomal adaptor, MAPK and MTOR activator 4
LATS1	NM_004690.2	LATS (large tumor suppressor, Drosophila) homolog 1,LATS, large tumor suppressor, homolog 1 (Drosophila)	large tumor suppressor kinase 1
LATS2	NM_014572.2	LATS (large tumor suppressor, Drosophila) homolog 2,LATS, large tumor suppressor, homolog 2 (Drosophila)	large tumor suppressor kinase 2
LDLRAP1	NM_015627.2	OBS;OB;leptin (murine obesity homolog),leptin (obesity homolog, mouse)	low density lipoprotein receptor adaptor protein 1
LEP	NM_000230.2	leptin	
LEPR	NM_001003679.1	leptin receptor	
LGALS3	NM_001177388.1	LGALS2;lectin, galactoside-binding, soluble, 3	galectin 3
LGMD	NM_001008530.2	PRSC1;protease, cysteine, 1 (legumain)	legumain
LILRB2	NM_001278405.1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2	leukocyte immunoglobulin like receptor B2
LIPA	NM_000235.3	lipase A, lysosomal acid, cholesterol esterase	lipase A, lysosomal acid type
LIPC	NM_000236.2	lipase, hepatic	lipase C, hepatic type
LIPG	NM_006033.2	lipase, endothelial	lipase G, endothelial type
LOX	NM_002317.4		lysyl oxidase
LOXL1	NM_005576.2	lysyl oxidase-like 1	lysyl oxidase like 1
LOXL2	NM_002318.2	lysyl oxidase-like 2	lysyl oxidase like 2
LOXL4	NM_032211.6	lysyl oxidase-like 4	lysyl oxidase like 4
LPA	NM_005577.2	LP;lipoprotein, Lp(a)	lipoprotein(a)
LPAR5	NM_020400.4	GPR93,GPR92;G protein-coupled receptor 92	lysophosphatidic acid receptor 5
LPCAT1	NM_024830.3	AYTL2;acyltransferase like 2	lysophosphatidylcholine acyltransferase 1
LPL	NM_000237.2	LIPD	lipoprotein lipase
LRP1	NM_002332.2	APR,A2MR,IGFBP3R1,IGFBP-3R;alpha-2-macroglobulin receptor,low density lipoprotein receptor-related protein 1	LDL receptor related protein 1
LRP2	NM_004525.2	low density lipoprotein receptor-related protein 2	LDL receptor related protein 2
LRP6	NM_002336.1	low density lipoprotein receptor-related protein 6	LDL receptor related protein 6
LRRC32	NM_001128922.1	D11S833E,GARP;glycoprotein A repetitions predominant	leucine rich repeat containing 32
LTA	NM_000595.2	TNFB;lymphotoxin alpha (TNF superfamily, member 1)	lymphotoxin alpha
LTB	NM_002341.1	TNFC	lymphotoxin beta
LYN	NM_002350.3	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog	LYN proto-oncogene, Src family tyrosine kinase
MAF	NM_005360.4	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog	MAF bZIP transcription factor
MAML1	NM_014757.4	mastermind (drosophila)-like 1,mastermind-like 1 (Drosophila)	mastermind like transcriptional coactivator 1
MAML2	NM_032427.2	mastermind (Drosophila)-like 2,mastermind-like 2 (Drosophila)	mastermind like transcriptional coactivator 2
MAML3	NM_018717.4	TNRC3;trinucleotide repeat containing 3,mastermind-like 3 (Drosophila)	mastermind like transcriptional coactivator 3
MAP1LC3A	NM_032514.2		microtubule associated protein 1 light chain 3 alpha
MAP2K1	NM_002755.2	PRKMK1	mitogen-activated protein kinase kinase 1
MAP3K1	NM_005921.1	MEKK1;MEKK1	mitogen-activated protein kinase kinase kinase 1
MAPK1	NM_138957.2	PRKMK2,PRKM1	mitogen-activated protein kinase 1
MAPK10	NM_138981.2	PRKMK10	mitogen-activated protein kinase 10
MAPK11	NM_002751.6	PRKMK11	mitogen-activated protein kinase 11
MAPK8	NM_002750.2	PRKMK8	mitogen-activated protein kinase 8
MAPK9	NM_001135044.1	PRKMK9	mitogen-activated protein kinase 9
MARCO	NM_006770.3		macrophage receptor with collagenous structure
		CRARF,PRSS5;mannan-binding lectin serine protease 1 (C4/C2 activating component of Ra-reactive factor),mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)	
MASP1	NM_001031849.2		mannan binding lectin serine peptidase 1
MBTPS2	NM_015884.3	KFSD;membrane-bound transcription factor protease, site 2,keratosis follicularis spinulosa decalvans	membrane bound transcription factor peptidase, site 2

		RTT,MRX16,MRX79;mental retardation, X-linked 16,mental retardation, X-linked 79,Rett syndrome,methyl CpG binding protein 2 (Rett syndrome),methyl CpG	
MECP2	NM_001110792.1	binding protein 2	methyl-CpG binding protein 2
MEF2A	NM_005587.2	MEF;Mediterranean fever,MEFV, pyrin innate immunity regulator	myocyte enhancer factor 2A
MEFV	NM_000243.2	MEFV innate immunity regulator, pyrin	
MET	NM_001127500.1	met proto-oncogene	MET proto-oncogene, receptor tyrosine kinase
MFAP3	NM_001242336.1	microfibrillar associated protein 3	microfibril associated protein 3
MKI67	NM_002417.2	antigen identified by monoclonal antibody Ki-67	marker of proliferation Ki-67
MLXIPL	NM_032951.2	WBSCR14;Williams Beuren syndrome chromosome region 14,MLX interacting protein-like	MLX interacting protein like
MMP1	NM_002421.3	CLG;matrix metalloproteinase 1 (interstitial collagenase) STMY2;matrix metalloproteinase 10 (stromelysin 2),stromelysin 2	matrix metallopeptidase 1
MMP10	NM_002425.1	STMY3;matrix metalloproteinase 11 (stromelysin 3),stromelysin 3	matrix metallopeptidase 10
MMP11	NM_005940.3	matrix metalloproteinase 12 (macrophage elastase)	matrix metallopeptidase 11
MMP12	NM_002426.3	matrix metalloproteinase 13 (collagenase 3)	matrix metallopeptidase 12
MMP13	NM_002427.2	matrix metalloproteinase 14 (membrane-inserted),matrix metallopeptidase 14 (membrane-inserted)	matrix metallopeptidase 13
MMP14	NM_004995.2	C8orf57;matrix metalloproteinase 16 (membrane-inserted),chromosome 8 open reading frame 57,matrix metallopeptidase 16 (membrane-inserted)	matrix metallopeptidase 14
MMP16	NM_005941.4	CLG4,CLG4A;matrix metalloproteinase 2 (gelatinase A, 72kDa gelatinase, 72kDa type IV collagenase)	matrix metallopeptidase 16
MMP2	NM_004530.2	STMY1,STMY;matrix metalloproteinase 3 (stromelysin 1, progelatinase),stromelysin 1	matrix metallopeptidase 2
MMP3	NM_002422.3	MMPN;multimerin	matrix metallopeptidase 3
MMP7	NM_002423.3	MPSL1;matrix metalloproteinase 7 (matrilysin, uterine)	matrix metallopeptidase 7
MMP8	NM_002424.2	CLG1;matrix metalloproteinase 8 (neutrophil collagenase) CLG4B;matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	matrix metallopeptidase 8
MMP9	NM_004994.2	MMPN;multimerin	matrix metallopeptidase 9
MMRN1	NM_007351.2	MUT;methylmalonyl Coenzyme A mutase	methylmalonyl-CoA mutase
MOB1B	NM_173468.3	MOBKL1A;MOB1, Mps One Binder kinase activator-like 1A (yeast),MOB1 Mps One Binder homolog B (yeast)	MOB kinase activator 1B
MS4A1	NM_152866.2	CD20;membrane-spanning 4-domains, subfamily A, member 1	membrane spanning 4-domains A1
MS4A2	NM_000139.3	FCER1B,IGER,APY;IgE responsiveness (atopic),membrane-spanning 4-domains, subfamily A, member 2 (Fc fragment of IgE, high affinity I, receptor for; beta polypeptide),membrane-spanning 4-domains, subfamily A, member 2	membrane spanning 4-domains A2
MS4A4A	NM_024021.2	MS4A4;membrane-spanning 4-domains, subfamily A, member 4,membrane-spanning 4-domains, subfamily A, member 4A	membrane spanning 4-domains A4A
MTMR4	NM_004687.4	FRAP,FRAP2,FRAP1;FK506 binding protein 12-rapamycin associated protein 1,mechanistic target of rapamycin (serine/threonine kinase),mechanistic target of rapamycin	myotubularin related protein 4
MTOR	NM_004958.3	rapamycin	mechanistic target of rapamycin kinase
MUC5B	NM_002458.1	MUC5;mucin 5, subtype B, tracheobronchial	mucin 5B, oligomeric mucus/gel-forming
MYD88	NM_002468.3	myeloid differentiation primary response gene (88),myeloid differentiation primary response 88	MYD88 innate immune signal transduction adaptor
MYL2	NM_000432.3	myosin, light polypeptide 2, regulatory, cardiac, slow,myosin, light chain 2, regulatory, cardiac, slow	myosin light chain 2
MYLK	NM_053032.2	myosin, light polypeptide kinase	myosin light chain kinase
NCAM1	NM_000615.5		neural cell adhesion molecule 1
NCEH1	NM_020792.4	AADACL1;arylacetamide deacetylase-like 1	neutral cholesterol ester hydrolase 1
NCF1	NM_000265.4	neutrophil cytosolic factor 1 (47kD, chronic granulomatous disease, autosomal 1)	neutrophil cytosolic factor 1
NCF4	NM_000631.4	neutrophil cytosolic factor 4 (40kD),neutrophil cytosolic factor 4, 40kDa	neutrophil cytosolic factor 4
NCK2	NM_001004720.2		NCK adaptor protein 2
NCKAP1L	NM_005337.4	HEM1;hematopoietic protein 1	NCK associated protein 1 like
NCOA2	NM_006540.2		nuclear receptor coactivator 2
NCOR2	NM_006312.3	nuclear receptor co-repressor 2	nuclear receptor corepressor 2
NCR1	NM_004829.5	L94;lymphocyte antigen 94 (mouse) homolog (activating NK-receptor; NK-p46)	natural cytotoxicity triggering receptor 1
NCSTN	NM_015331.2		nicastrin
NDUFA1	NM_004541.3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1 (7.5kD, MWFE),NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa	NADH:ubiquinone oxidoreductase subunit A1

NDUFB5	NM_002492.3	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5 (16kD, SGDHI),NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 5, 16kDa	NADH:ubiquinone oxidoreductase subunit B5
NDUFB6	NM_002493.5	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6 (17kD, B17),NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 6, 17kDa	NADH:ubiquinone oxidoreductase subunit B6
NDUFB8	NM_001284367.1	NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8 (19kD, ASHI),NADH dehydrogenase (ubiquinone) 1 beta subcomplex, 8, 19kDa	NADH:ubiquinone oxidoreductase subunit B8
NDUFC1	NM_002494.2	NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1 (6kD, KFYI),NADH dehydrogenase (ubiquinone) 1, subcomplex unknown, 1, 6kDa	NADH:ubiquinone oxidoreductase subunit C1
NDUFS3	NM_004551.1	NADH dehydrogenase (ubiquinone) Fe-S protein 3 (30kD) (NADH-coenzyme Q reductase),NADH dehydrogenase (ubiquinone) Fe-S protein 3, 30kDa (NADH-coenzyme Q reductase)	NADH:ubiquinone oxidoreductase core subunit S3
NDUFS5	NM_004552.2	NADH dehydrogenase (ubiquinone) Fe-S protein 5 (15kD) (NADH-coenzyme Q reductase),NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15kDa (NADH-coenzyme Q reductase)	NADH:ubiquinone oxidoreductase subunit S5
NEDD8	NM_006156.2	neural precursor cell expressed, developmentally down-regulated 8	NEDD8 ubiquitin like modifier
NF1	NM_000267.2		neurofibromin 1
NFAM1	NM_145912.5		NFAT activating protein with ITAM motif 1
NFKB1	NM_003998.2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	nuclear factor kappa B subunit 1
NID1	NM_002508.2	NID;nidogen (enactin)	nidogen 1
NID2	NM_007361.3		nidogen 2
NKG7	NM_005601.3	natural killer cell group 7 sequence	natural killer cell granule protein 7
NLRC4	NM_001199138.1	CARD12;caspase recruitment domain family, member 12 C10orf7,CIAS1,DFNA34;cold autoinflammatory syndrome	NLR family CARD domain containing 4
NLRP3	NM_001079821.2	1,deafness, autosomal dominant 34	NLR family pyrin domain containing 3
NOS1	NM_000620.4	NOS;nitric oxide synthase 1 (neuronal)	nitric oxide synthase 1
NOS3	NM_000603.4	nitric oxide synthase 3 (endothelial cell)	nitric oxide synthase 3
NOTCH1	NM_017617.3	TAN1;Notch (Drosophila) homolog 1 (translocation-associated),Notch homolog 1, translocation-associated (Drosophila),notch 1	notch receptor 1
NOTCH2	NM_024408.3	Notch (Drosophila) homolog 2,Notch homolog 2 (Drosophila),notch 2	notch receptor 2
NOTCH3	NM_000435.2	CADASIL;Notch (Drosophila) homolog 3,Notch homolog 3 (Drosophila),notch 3	notch receptor 3
NOTCH4	NM_004557.3	INT3;Notch (Drosophila) homolog 4,Notch homolog 4 (Drosophila),notch 4	notch receptor 4
NPC1	NM_000271.3	Niemann-Pick disease, type C1	NPC intracellular cholesterol transporter 1
NPHP4	NM_015102.3	nephronophthisis 4	nephrocystin 4
NR1H2	NM_007121.4	UNR;ubiquitously-expressed nuclear receptor,nuclear receptor subfamily 1, group H, member 2	nuclear receptor subfamily 1 group H member 2
NR1H3	NM_005693.2	nuclear receptor subfamily 1, group H, member 3	nuclear receptor subfamily 1 group H member 3
NR1H4	NM_001206977.1	nuclear receptor subfamily 1, group H, member 4	nuclear receptor subfamily 1 group H member 4
NRIP3	NM_020645.2	C11orf14;chromosome 11 open reading frame 14	nuclear receptor interacting protein 3
NRP2	NM_003872.2		neuropilin 2
NUMB	NM_001005743.1	C14orf41;numb (Drosophila) homolog,chromosome 14 open reading frame 41,numb homolog (Drosophila)	NUMB endocytic adaptor protein
OAS1	NM_001032409.1	OIAS;2',5'-oligoadenylate synthetase 1 (40-46 kD),2'-5'-oligoadenylate synthetase 1, 40/46kDa	2'-5'-oligoadenylate synthetase 1
OASL	NM_198213.1	2'-5'-oligoadenylate synthetase-like	2'-5'-oligoadenylate synthetase like
OCLN	NM_002538.3		occludin
OGT	NM_181673.2	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine:polypeptide-N-acetylglucosaminyl transferase)	O-linked N-acetylglucosamine (GlcNAc) transferase
OSBPL5	NM_020896.3	oxysterol binding protein-like 5	oxysterol binding protein like 5
P2RY13	NM_176894.1	GPR94,GPR86;G protein-coupled receptor 86,purinergic receptor P2Y, G-protein coupled, 13	purinergic receptor P2Y13
P3H3	NM_014262.4	LEPREL2;leprecan-like 2	prolyl 3-hydroxylase 3
P4HB	NM_000918.3	PO4DB,ERBA2L;procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide (protein disulfide isomerase; thyroid hormone binding protein p55),procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide (protein disulfide isomerase-associated 1),procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), beta polypeptide,prolyl 4-hydroxylase, beta polypeptide	prolyl 4-hydroxylase subunit beta

PANX1	NM_015368.3		pannexin 1
		PPOL,ADPRT;ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase),poly (ADP-ribose) polymerase	
PARP1	NM_001618.3	family, member 1	poly(ADP-ribose) polymerase 1
		ADPRTL1;ADP-ribosyltransferase (NAD+; poly (ADP-ribose) polymerase)-like 1	
PARP4	NM_006437.3		poly(ADP-ribose) polymerase family member 4
PC	NM_00920.3		pyruvate carboxylase
PCCB	NM_000532.4	propionyl Coenzyme A carboxylase, beta polypeptide	propionyl-CoA carboxylase subunit beta
PCK1	NM_002591.2	phosphoenolpyruvate carboxykinase 1 (soluble)	phosphoenolpyruvate carboxykinase 1
PDE2A	NM_001143839.1	phosphodiesterase 2A, cGMP-stimulated	phosphodiesterase 2A
PDE3B	NM_000922.3	phosphodiesterase 3B, cGMP-inhibited	phosphodiesterase 3B
		SIS;platelet-derived growth factor beta polypeptide (simian sarcoma viral (v-sis) oncogene homolog),platelet-	
PDGFB	NM_033016.2	derived growth factor beta polypeptide	platelet derived growth factor subunit B
PDGFRB	NM_002609.3	PDGFR;platelet-derived growth factor receptor, beta polypeptide	platelet derived growth factor receptor beta
PDHA1	NM_000284.3	PDHA;pyruvate dehydrogenase (lipoamide) alpha 1,pyruvate dehydrogenase alpha 1	pyruvate dehydrogenase E1 alpha 1 subunit
PECAM1	NM_000442.3	platelet/endothelial cell adhesion molecule 1	platelet and endothelial cell adhesion molecule 1
PELI1	NM_020651.3	pellino (Drosophila) homolog 1,pellino homolog 1 (Drosophila)	pellino E3 ubiquitin protein ligase 1
PELI2	NM_021255.2	pellino (Drosophila) homolog 2,pellino homolog 2 (Drosophila)	pellino E3 ubiquitin protein ligase family member 2
PGM1	NM_001172818.1		phosphoglucomutase 1
		PLEKHE1,PHLPP;pleckstrin homology domain containing, family E (with leucine rich repeats) member 1,PH domain and leucine rich repeat protein phosphatase	PH domain and leucine rich repeat protein phosphatase 1
PHLPP1	NM_194449.3		
PHYKPL	NM_153373.3	AGXT2L2;alanine-glyoxylate aminotransferase 2-like 2	5-phosphohydroxy-L-lysine phospho-lyase
PIDD1	NM_145886.2	LRDD,PIDD;leucine-rich repeats and death domain containing,p53-induced death domain protein	p53-induced death domain protein 1
		phosphoinositide-3-kinase, class 3,phosphatidylinositol 3-kinase, catalytic subunit type 3	phosphatidylinositol 3-kinase catalytic subunit type 3
PIK3C3	NM_002647.2	phosphoinositide-3-kinase, catalytic, alpha polypeptide,phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
PIK3CA	NM_006218.2	PIK3C1;phosphoinositide-3-kinase, catalytic, beta polypeptide,phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit beta	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
PIK3CB	NM_006219.1		
PIK3R4	NM_014602.1	phosphoinositide-3-kinase, regulatory subunit 4	phosphoinositide-3-kinase regulatory subunit 4
PIK3R5	NM_001142633.1	phosphoinositide-3-kinase, regulatory subunit 5	phosphoinositide-3-kinase regulatory subunit 5
PKHD1	NM_138694.3	TIGM1;TIG multiple domains 1,polyzystic kidney and hepatic disease 1 (autosomal recessive),PKHD1, fibrocystin/polyductin	PKHD1 ciliary IPT domain containing fibrocystin/polyductin
PLCB2	NM_004573.2	phospholipase C, beta 2	phospholipase C beta 2
PLCB3	NM_000932.2	phospholipase C, beta 3 (phosphatidylinositol-specific)	phospholipase C beta 3
PLCG1	NM_002660.2	PLC1;phospholipase C, gamma 1 (formerly subtype 148),phospholipase C, gamma 1	phospholipase C gamma 1
PLCG2	NM_002661.2	phospholipase C, gamma 2 (phosphatidylinositol-specific)	phospholipase C gamma 2
PLG	NM_000301.3		plasminogen
PLIN4	NM_001080400.1	KIAA1881;KIAA1881	PLGLB1 (NM_001032392), PLGLB2 (NM_002665) perilipin 4
		PPAPDC1,PPAPDC1A;phosphatidic acid phosphatase type 2 domain containing 1,phosphatidic acid phosphatase	
PLPP4	NM_001030059.1	type 2 domain containing 1A	phospholipid phosphatase 4
PLTP	NM_006227.2		phospholipid transfer protein
PNOC	NM_001284244.1	C22orf20,ADPN;chromosome 22 open reading frame 20,adiponutrin,patatin-like phospholipase domain containing 3	prepronociceptin
PNPLA3	NM_025225.2		patatin like phospholipase domain containing 3
POSTN	NM_001135935.1	periostin, osteoblast specific factor	periostin
		PPAR;peroxisome proliferative activated receptor,	
PPARA	NM_001001928.2	alpha,peroxisome proliferator-activated receptor alpha	peroxisome proliferator activated receptor alpha
		peroxisome proliferative activated receptor,	
PPARD	NM_006238.4	delta,peroxisome proliferator-activated receptor delta	peroxisome proliferator activated receptor delta
		peroxisome proliferative activated receptor,	
PPARG	NM_005037.5	gamma,peroxisome proliferator-activated receptor gamma	peroxisome proliferator activated receptor gamma
		PPARGC1;peroxisome proliferative activated receptor, gamma, coactivator 1,peroxisome proliferative activated receptor, gamma, coactivator 1, alpha,peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	
PPARGC1A	NM_013261.3		PPARG coactivator 1 alpha
		protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform,protein phosphatase, Mg2+/Mn2+ dependent, 1A	sub-maximal isoform coverage due to non-overlapping variants
PPM1A	NM_021003.4		protein phosphatase, Mg2+/Mn2+ dependent 1A

PPP2CA	NM_002715.2	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform;protein phosphatase 2, catalytic subunit, alpha isozyme	protein phosphatase 2 catalytic subunit alpha
PRAP1	NM_145202.4		proline rich acidic protein 1
PRDX1	NM_002574.2	PAGA	peroxiredoxin 1
PRDX6	NM_004905.2		peroxiredoxin 6
PREX1	NM_020820.3	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1	phosphatidylinositol-3,4,5-trisphosphate dependent Rac exchange factor 1
PRF1	NM_005041.3	perforin 1 (pore forming protein)	perforin 1
PRKAA1	NM_006251.5	protein kinase, AMP-activated, alpha 1 catalytic subunit	protein kinase AMP-activated catalytic subunit alpha 1
PRKAB2	NM_005399.3	protein kinase, AMP-activated, beta 2 non-catalytic subunit	protein kinase AMP-activated non-catalytic subunit beta 2
PRKACA	NM_002730.3	protein kinase, cAMP-dependent, catalytic, alpha,protein kinase, cAMP-dependent, alpha catalytic subunit	protein kinase cAMP-activated catalytic subunit alpha
PRKACB	NM_182948.2	protein kinase, cAMP-dependent, catalytic, beta,protein kinase, cAMP-dependent, beta catalytic subunit	protein kinase cAMP-activated catalytic subunit beta
PRKG1	NM_002733.3	protein kinase, AMP-activated, gamma 1 non-catalytic subunit	protein kinase AMP-activated non-catalytic subunit gamma 1
PRKG2	NM_016203.3	protein kinase, AMP-activated, gamma 2 non-catalytic subunit	protein kinase AMP-activated non-catalytic subunit gamma 2
PRKCA	NM_002737.2	PKCA;protein kinase C, alpha	protein kinase C alpha
PRKDC	NM_006904.6	HYRC;HYRC1;protein kinase, DNA-activated, catalytic polypeptide	protein kinase, DNA-activated, catalytic subunit
PRLR	NM_001204318.1		prolactin receptor
PROS1	NM_000313.1	PROS;protein S (alpha)	protein S
PSEN2	NM_000447.2	AD4;Alzheimer disease 4	presenilin 2
PSENEN	NM_172341.1	presenilin enhancer 2 homolog (C. elegans)	presenilin enhancer, gamma-secretase subunit
PSMB1	NM_002793.2	proteasome (prosome, macropain) subunit, beta type, 1	proteasome subunit beta 1
PSMB7	NM_002799.2	proteasome (prosome, macropain) subunit, beta type, 7	proteasome subunit beta 7
PSMB8	NM_004159.4	LMP7;proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional protease 7),large multifunctional peptidase 7,proteasome (prosome, macropain) subunit, beta type, 8	proteasome subunit beta 8
PSMC3	NM_002804.4	proteasome (prosome, macropain) 26S subunit, ATPase, 3	proteasome 26S subunit, ATPase 3
PSMD13	NM_175932.2	proteasome (prosome, macropain) 26S subunit, non-ATPase, 13	proteasome 26S subunit, non-ATPase 13
PTAFR	NM_000952.3		platelet activating factor receptor
PTCH1	NM_000264.4	NBCCS,PTCH;patched (Drosophila) homolog,patched homolog (Drosophila),patched homolog 1 (Drosophila)	patched 1
PTGER4	NM_000958.2	prostaglandin E receptor 4 (subtype EP4)	prostaglandin E receptor 4
PTGS2	NM_000963.1	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	prostaglandin-endoperoxide synthase 2
PTK2	NM_005607.4	PTK2 protein tyrosine kinase 2	protein tyrosine kinase 2
PTK2B	NM_004103.3	FAK2;FAK2	protein tyrosine kinase 2 beta
PTPA	NM_021131.4	PPP2R4;protein phosphatase 2A, regulatory subunit B' (PR 53),protein phosphatase 2A activator, regulatory subunit 4,protein phosphatase 2 regulatory subunit 4	protein phosphatase 2 phosphatase activator
PTPN1	NM_002827.3	PTP1B	protein tyrosine phosphatase non-receptor type 1
PTPN11	NM_002834.3	NS1;Noonan syndrome 1,protein tyrosine phosphatase, non-receptor type 11	protein tyrosine phosphatase non-receptor type 11
PTPN12	NM_002835.3		protein tyrosine phosphatase non-receptor type 12
PTPN6	NM_002831.5		protein tyrosine phosphatase non-receptor type 6
PTPRC	NM_080923.2	CD45	protein tyrosine phosphatase receptor type C
PYGM	NM_001164716.1	phosphorylase, glycogen; muscle	glycogen phosphorylase, muscle associated
RAB7B	NM_001164522.1		RAB7B, member RAS oncogene family
RAC1	NM_006908.4	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)	Rac family small GTPase 1
RAC2	NM_002872.4	ras-related C3 botulinum toxin substrate 2 (rho family, small GTP binding protein Rac2)	Rac family small GTPase 2
RAC3	NM_005052.2	ras-related C3 botulinum toxin substrate 3 (rho family, small GTP binding protein Rac3)	Rac family small GTPase 3
RAP1B	NM_001010942.2		RAP1B, member of RAS oncogene family
RAPGEF1	NM_005312.2	GRF2;guanine nucleotide-releasing factor 2 (specific for crk proto-oncogene),Rap guanine nucleotide exchange factor (GEF) 1	Rap guanine nucleotide exchange factor 1
RAPGEF2	NM_014247.2	PDGFR;PDZ domain containing guanine nucleotide exchange factor (GEF) 2	Rap guanine nucleotide exchange factor 2
RASGRP4	NM_170604.1		RAS guanyl releasing protein 4
RBX1	NM_014248.2		ring-box 1
RELA	NM_021975.3	NFKB3;nuclear factor of kappa light polypeptide gene enhancer in B-cells 3,v-rel avian reticuloendotheliosis viral oncogene homolog A	RELA proto-oncogene, NF-kB subunit
RELB	NM_006509.3	v-rel avian reticuloendotheliosis viral oncogene homolog B (nuclear factor of kappa light polypeptide gene enhancer in B-cells 3)	RELB proto-oncogene, NF-kB subunit
RELN	NM_005045.2		reelin
RETN	NM_020415.2		resistin

RGS7	NM_002924.2	regulator of G-protein signalling 7,regulator of G-protein signaling 7	regulator of G protein signaling 7
RHO	NM_000539.2	RP4;retinitis pigmentosa 4, autosomal dominant	rhodopsin
RIPK3	NM_006871.3	receptor-interacting serine-threonine kinase 3	receptor interacting serine/threonine kinase 3
RNF111	NM_017610.6		ring finger protein 111
RNF152	NM_173557.2		ring finger protein 152
ROCK2	NM_004850.3		Rho associated coiled-coil containing protein kinase 2
RORA	NM_134261.2	RAR-related orphan receptor A	RAR related orphan receptor A
RPS27A	NM_002954.5		ribosomal protein S27a
RPS6KA2	NM_021135.4	ribosomal protein S6 kinase, 90kD, polypeptide 2	ribosomal protein S6 kinase A2
RPS6KB2	NM_003952.2	ribosomal protein S6 kinase, 70kD, polypeptide 2	ribosomal protein S6 kinase B2
S100A12	NM_005621.1	S100 calcium-binding protein A12 (calgranulin C)	S100 calcium binding protein A12
S100A4	NM_002961.2	MTS1,CAPL;metastasin 1,calcium placental protein,S100 calcium-binding protein A4 (calcium protein, calvasculin, metastasin, murine placental homolog)	S100 calcium binding protein A4
SAA1	NM_199161.1	SAA	serum amyloid A1
SCD	NM_005063.4	SCDOS;stearoyl-CoA desaturase opposite strand,stearoyl-CoA desaturase (delta-9-desaturase)	stearoyl-CoA desaturase
SCIN	NM_033128.3		scinderin
SDC3	NM_014654.3	syndecan 3 (N-syndecan)	syndecan 3
SEC24C	NM_004922.2	SEC24 (S. cerevisiae) related gene family, member C,SEC24 family, member C (S. cerevisiae),SEC24 family member C	SEC24 homolog C, COPII coat complex component
SEC61B	NM_006808.2	Sec61 beta subunit	SEC61 translocon beta subunit
SEH1L	NM_001013437.1	SEH1-like (S. cerevisiae),SEH1-like nucleoporin	SEH1 like nucleoporin
SELENOS	NM_203472.1	VIMP,VCP-interacting membrane protein,VCP interacting membrane selenoprotein	selenoprotein S
SEM1	NM_001201451.1	SHFD1,SHFM1,C7orf76;split hand/foot malformation (ectrodactyly) type 1,chromosome 7 open reading frame 76,SEM1, 26S proteasome complex subunit	SEM1 26S proteasome complex subunit
SERpine1	NM_000602.2	PLANH1,PAI1;serine (or cysteine) proteinase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 1	serpin family E member 1
SERPINF1	NM_002615.4	PEDF;serine (or cysteine) proteinase inhibitor, clade F (alpha-2 antiplasmin, pigment epithelium derived factor), member 1,pigment epithelium-derived factor	serpin family F member 1
SERPING1	NM_000062.2	C1NH;serine (or cysteine) proteinase inhibitor, clade G (C1 inhibitor), member 1, (angioedema, hereditary),serpin peptidase inhibitor, clade G (C1 inhibitor), member 1	serpin family G member 1
SERPINH1	NM_001235.2	CBP1,CBP2,SERPINH2;serine (or cysteine) proteinase inhibitor, clade H (heat shock protein 47), member 2,serine (or cysteine) proteinase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1),serpin peptidase inhibitor, clade H (heat shock protein 47), member 1, (collagen binding protein 1)	serpin family H member 1
SH2D1A	NM_002351.4	IMD5,LYP;lymphoproliferative syndrome,SH2 domain protein 1A	SH2 domain containing 1A
SIGLECS	NM_003830.3	CD33L2;sialic acid binding Ig-like lectin 5	sialic acid binding Ig like lectin 5
SIL1	NM_001037633.1	MSS;Marinesco-Sjogren syndrome,SIL1 homolog, endoplasmic reticulum chaperone (S. cerevisiae)	SIL1 nucleotide exchange factor
SIRT1	NM_012238.4	sirtuin (silent mating type information regulation 2, S. cerevisiae, homolog) 1,sirtuin (silent mating type information regulation 2 homolog) 1 (S. cerevisiae)	sirtuin 1
SKI	NM_003036.2	v-ski avian sarcoma viral oncogene homolog	SKI proto-oncogene
SKP1	NM_170679.2	SKP1A;S-phase kinase-associated protein 1A (p19A)	S-phase kinase associated protein 1
SKP2	NM_005983.2	S-phase kinase-associated protein 2 (p45),S-phase kinase-associated protein 2, E3 ubiquitin protein ligase	S-phase kinase associated protein 2
SLC25A10	NM_012140.3	DIC;solute carrier family 25 (mitochondrial carrier; dicarboxylate transporter), member 10	solute carrier family 25 member 10
SLC25A13	NM_001160210.1	CTLN2;solute carrier family 25, member 13 (citrin),solute carrier family 25 (aspartate/glutamate carrier), member 13	solute carrier family 25 member 13
SLC2A2	NM_000340.1	GLUT2;solute carrier family 2 (facilitated glucose transporter), member 2	solute carrier family 2 member 2
SLC37A4	NM_001164277.1	G6PT1,G6PT2,G6PT3;glucose-6-phosphatase, transport (glucose-6-phosphate) protein 1,solute carrier family 37 (glucose-6-phosphate transporter), member 4	solute carrier family 37 member 4
SMAD2	NM_001003652.3	MADH2;MAD, mothers against decapentaplegic homolog 2 (Drosophila),SMAD, mothers against DPP homolog 2 (Drosophila)	SMAD family member 2

		MADH3;MAD, mothers against decapentaplegic homolog 3 (Drosophila),SMAD, mothers against DPP homolog 3 (Drosophila)	
SMAD3	NM_005902.3		SMAD family member 3
		MADH4;MAD, mothers against decapentaplegic homolog 4 (Drosophila),SMAD, mothers against DPP homolog 4 (Drosophila)	
SMAD4	NM_005359.3		SMAD family member 4
		MADH7,MADH6;MAD, mothers against decapentaplegic homolog 6 (Drosophila),SMAD, mothers against DPP	
SMAD6	NR_027654.1	homolog 6 (Drosophila)	SMAD family member 6
		SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily c member 2
SMARCC2	NM_001130420.1		
SMURF1	NM_181349.1		SMAD specific E3 ubiquitin protein ligase 1
		SLUG;slug homolog, zinc finger protein (chicken),snail homolog 2 (Drosophila),snail family zinc finger 2 ALS,ALS1;amyotrophic lateral sclerosis 1 (adult),superoxide dismutase 1, soluble	snail family transcriptional repressor 2
SNAI2	NM_003068.3		
SOD1	NM_000454.4	SH3D5;SH3-domain protein 5 (ponsin)	superoxide dismutase 1
SORBS1	NM_001034956.1	GINGF;gingival fibromatosis, hereditary, 1,son of severless homolog 1 (Drosophila)	sorbin and SH3 domain containing 1
SOS1	NM_005633.2		SOS Ras/Rac guanine nucleotide exchange factor 1
SP1	NM_003109.1		Sp1 transcription factor
SP3	NM_003111.3		Sp3 transcription factor
SPIB	NM_003121.3	Spi-B transcription factor (Spi-1/PU.1 related)	Spi-B transcription factor
SPOP	NM_001007226.1	speckle-type POZ protein	speckle type BTB/POZ protein
SPOPL	NM_001001664.1	speckle-type POZ protein-like	speckle type BTB/POZ protein like
SPP1	NM_000582.2	BNSP,OPN;osteopontin,bone sialoprotein I SRC1;v-src avian sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog	secreted phosphoprotein 1
SRC	NM_005417.3		SRC proto-oncogene, non-receptor tyrosine kinase
SREBF1	NM_001005291.1		sterol regulatory element binding transcription factor 1
		signal sequence receptor, beta (translocon-associated protein beta)	signal sequence receptor subunit 2
SSR2	NM_003145.3		signal sequence receptor, delta
SSR4	NM_006280.1		signal transducer and activator of transcription 1, 91kD,signal transducer and activator of transcription 1, 91kDa
STAT1	NM_139266.1		signal transducer and activator of transcription 1
		signal transducer and activator of transcription 3 (acute-phase response factor)	signal transducer and activator of transcription 3
STAT3	NM_003150.3		STAT5
STAT5A	NM_003152.2		signal transducer and activator of transcription 5A
STAT5B	NM_012448.3		signal transducer and activator of transcription 5B
STK4	NR_147975.1		serine/threonine kinase 4
SUFU	NM_001178133.1	suppressor of fused homolog (Drosophila)	SUFU negative regulator of hedgehog signaling
SUGT1	NM_001130912.1	SGT1, suppressor of G2 allele of SKP1 ( <i>S. cerevisiae</i> )	SGT1 homolog, MIS12 kinetochore complex assembly cochaperone
SYK	NM_003177.5	spleen tyrosine kinase	spleen associated tyrosine kinase
TBC1D4	NM_014832.2	TBC1 domain family, member 4	TBC1 domain family member 4
TBL1XR1	NM_024665.4	transducin (beta)-like 1X-linked receptor 1	transducin beta like 1 X-linked receptor 1
TBX21	NM_013351.1		T-box 21
TCF7L1	NM_031283.1	TCF3;transcription factor 7-like 1 (T-cell specific, HMG-box)	transcription factor 7 like 1
TCF7L2	NM_001146274.1	TCF4;transcription factor 7-like 2 (T-cell specific, HMG-box)	transcription factor 7 like 2
TCL1A	NR_049726.1	T-cell leukemia/lymphoma 1A	T cell leukemia/lymphoma 1A
		VMCM;venous malformations, multiple cutaneous and mucosal,TEK tyrosine kinase, endothelial	
TEK	NM_000459.3		TEK receptor tyrosine kinase
TGFB1	NM_000660.3	TGF $\beta$ ,DPD1;transforming growth factor, beta 1	transforming growth factor beta 1
TGFB1I1	NM_001042454.1		transforming growth factor beta 1 induced transcript 1
		MSSE,ESS1;multiple self-healing squamous epithelioma,transforming growth factor beta receptor I	
TGFBR1	NM_004612.2		transforming growth factor beta receptor 1
		MFS2;transforming growth factor, beta receptor II (70/80kDa),transforming growth factor beta receptor II	
TGFBR2	NM_001024847.1		transforming growth factor beta receptor 2
THBS1	NM_003246.2		thrombospondin 1
THBS2	NM_003247.2		thrombospondin 2
THBS3	NM_001252607.1		thrombospondin 3
		TIMP,CLGI;tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor)	
TIMP1	NM_003254.2		TIMP metallopeptidase inhibitor 1
TIMP2	NM_003255.4	tissue inhibitor of metalloproteinase 2	TIMP metallopeptidase inhibitor 2
TJP1	NM_003257.3		tight junction protein 1
TJP2	NM_004817.2	DFNA51;deafness, autosomal dominant 51	tight junction protein 2
TLN1	NM_006289.3	TLN	talin 1
TLR1	NM_003263.3	toll-like receptor 1	toll like receptor 1
TLR2	NM_003264.3	toll-like receptor 2	toll like receptor 2
TLR4	NM_138554.2	toll-like receptor 4	toll like receptor 4
TLR6	NM_006068.2	toll-like receptor 6	toll like receptor 6
TLR8	NM_016610.2	toll-like receptor 8	toll like receptor 8
TM6SF2	NM_001001524.2		transmembrane 6 superfamily member 2
TNF	NM_000594.2	TNFA;tumor necrosis factor (TNF superfamily, member 2)	tumor necrosis factor
TNFRSF17	NM_001192.2	BCMA;tumor necrosis factor receptor superfamily, member 17	TNF receptor superfamily member 17
TNFSF10	NM_003810.2	tumor necrosis factor (ligand) superfamily, member 10	TNF superfamily member 10

TNFSF14	NM_003807.3	tumor necrosis factor (ligand) superfamily, member 14	TNF superfamily member 14
TNN	NM_022093.1	translocated promoter region (to activated MET oncogene)	tenascin N
TPR	NM_003292.2	translocated promoter region, nuclear basket protein	tryptase alpha/beta 1
TPSAB1/B2	NM_003294.3	TNFRSF1A-associated via death domain	TNFRSF1A associated via death domain
TRADD	NM_003789.2	TNF receptor-associated factor 2	TNF receptor associated factor 2
TRAF2	NM_021138.3	TNF receptor-associated factor 6, E3 ubiquitin protein ligase	TNF receptor associated factor 6
TRAF6	NM_145803.2	TCRIM;TCRIM	T cell receptor associated transmembrane adaptor 1
TRAT1	NM_016388.2	C20orf97;chromosome 20 open reading frame 97,tribbles homolog 3 ( <i>Drosophila</i> )	tribbles pseudokinase 3
TRIB3	NM_021158.3	transformation/transcription domain-associated protein	transformation/transcription domain associated protein
TTN	NM_133432.1	CMD1G;cardiomyopathy, dilated 1G (autosomal dominant)	titin
TXN	NM_003329.2	ubiquitin-conjugating enzyme E2D 2 (homologous to yeast UBC4/5),ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast),ubiquitin-conjugating enzyme	thioredoxin
TXN2	NM_012473.3	E2D 2	thioredoxin 2
TXND5	NM_030810.2	ubiquitin-conjugating enzyme E2N (homologous to yeast UBC13),ubiquitin-conjugating enzyme E2N (UBC13 homolog, yeast),ubiquitin-conjugating enzyme E2N	thioredoxin domain containing 5
UBAS2	NM_003333.3	ubiquitin A-52 residue ribosomal protein fusion product 1	ubiquitin A-52 residue ribosomal protein fusion product 1
UBE2D2	NM_181838.1	ubiquitin-conjugating enzyme E2D 2 (homologous to yeast UBC4/5),ubiquitin-conjugating enzyme E2D 2 (UBC4/5 homolog, yeast),ubiquitin-conjugating enzyme	ubiquitin conjugating enzyme E2 D2
UBE2N	NM_003348.3	E2D 2	ubiquitin conjugating enzyme E2 N
UBE4B	NM_006048.4	ubiquitination factor E4B (homologous to yeast UFD2),ubiquitination factor E4B (UFD2 homolog, yeast)	ubiquitination factor E4B
UQCRB	NM_006294.3	UQBP	ubiquinol-cytochrome c reductase binding protein
UQCRCFS1	NM_006003.2	VAV:vav 1 oncogene,vav 1 guanine nucleotide exchange factor	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1
UQCRRH	NM_006004.2	vascular cell adhesion molecule 1	ubiquinol-cytochrome c reductase hinge protein
VAMP8	NM_003761.4	VEGF;vascular endothelial growth factor	vesicle associated membrane protein 8
VAV1	NM_005428.2	VEGF;vascular endothelial growth factor	vav guanine nucleotide exchange factor 1
VCAM1	NM_001078.3	VRF	vascular endothelial growth factor A
VEGFA	NM_001025366.1	IMD2,THC;thrombocytopenia 1 (X-linked),Wiskott-Aldrich syndrome (eczema-thrombocytopenia),Wiskott-Aldrich syndrome	vascular endothelial growth factor B
VEGFB	NM_003377.3	IMD2,THC;thrombocytopenia 1 (X-linked),Wiskott-Aldrich syndrome (eczema-thrombocytopenia),Wiskott-Aldrich syndrome	vimentin
VIM	NM_003380.2	WW and C2 and coiled-coil domain containing 1	X-linked inhibitor of apoptosis
WAS	NM_000377.2	WW and C2 domain containing 1	WASP actin nucleation promoting factor
WWC1	NM_001161662.1	XAF1	XAF1 associated factor 1
XAF1	NM_199139.2	XBP1	X-box binding protein 1
XBP1	NM_005080.2	SCYC2;small inducible cytokine subfamily C, member 2,chemokine (C motif) ligand 2	X-C motif chemokine ligand 2
XCL1/2	NM_003175.3	API3,BIRC4;baculoviral IAP repeat-containing 4,X-linked inhibitor of apoptosis, E3 ubiquitin protein ligase	X-linked inhibitor of apoptosis
XIAP	NM_001167.3	YWHAB	YWHAB tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, alpha polypeptide
YWHAE	NM_006761.4	YWHAG	YWHAG tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide
YWHAQ	NM_006826.2	ZFYVE16	ZFYVE16 tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide
			tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein epsilon
			tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein gamma
			tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta
			zinc finger FYVE-type containing 16
<b>Internal Reference Genes</b>			
ACAD9	NM_014049.4	acyl-Coenzyme A dehydrogenase family, member 9,acyl-CoA dehydrogenase family, member 9	acyl-CoA dehydrogenase family member 9
ARMH3	NM_024541.2	C10orf76;chromosome 10 open reading frame 76	armadillo like helical domain containing 3
CNOT10	NM_001256741.1	CCR4-NOT transcription complex, subunit 10	CCR4-NOT transcription complex subunit 10
GUSB	NM_000181.3	glucuronidase, beta	glucuronidase beta
MTMR14	NM_022485.3	C3orf29;chromosome 3 open reading frame 29	myotubularin related protein 14
		C6orf90,PQBP3;chromosome 6 open reading frame 90,polyglutamine binding protein 3,nucleolar protein 7,	
NOL7	NM_016167.3	27kDa	nucleolar protein 7
NUBP1	NM_002484.3	NBP1;nucleotide binding protein 1 (E.coli MinD like),nucleotide binding protein 1 (MinD homolog, E. coli)	nucleotide binding protein 1
PGK1	NM_000291.2		phosphoglycerate kinase 1

PPIA	NM_021130.3		PPIAL4A (NM_001143883), PPIAL4C (NM_001135789), PPIAL4E (NM_001144032), PPIAL4D (NM_001164261), PPIAL4G (NM_001123068), PPIAL4F (NM_001164262)
RPLPO	NM_001002.3	ribosomal protein, large, P0	peptidylprolyl isomerase A ribosomal protein lateral stalk subunit P0
© 2019 NanoString Technologies, all rights reserved			