

nCounter® Immune Exhaustion Panel - Gene and Probe Details

Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or Isoform Information
ACACA	NM_198834.1	ACAC,ACC,acetyl-Coenzyme A carboxylase alpha	acetyl-CoA carboxylase alpha	
ACADL	NM_001608.3	acyl-Coenzyme A dehydrogenase, long chain	acyl-CoA dehydrogenase long chain	
ACADVL	NM_001270447.1	acyl-Coenzyme A dehydrogenase, very long chain	acyl-CoA dehydrogenase very long chain	
ACAT2	NM_005891.2	acetyl-Coenzyme A acetyltransferase 2 (acetoacetyl Coenzyme A thiolase),acetyl-Coenzyme A acetyltransferase 2	acetyl-CoA acetyltransferase 2	
ACOT1/2	NM_001037161.1		acyl-CoA thioesterase 1/2	
ACSL3	NM_203372.1	FACL3;fatty-acid-Coenzyme A ligase, long-chain 3	acyl-CoA synthetase long chain family member 3	
ACSL4	NM_004458.2	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	
ACSL6	NM_001009185.1	FACL6;fatty-acid-Coenzyme A ligase, long-chain 6	acyl-CoA synthetase long chain family member 6	
ADH1A/B/C	NM_000668.5		alcohol dehydrogenase 1A/B/C (class I), alpha polypeptide	
ADH6	NM_000672.3		alcohol dehydrogenase 6 (class V)	
ADORA2A	NM_000675.3	ADORA2	adenosine A2a receptor	
ADORA2B	NM_000676.2		adenosine A2b receptor	
AHR	NM_001621.3		aryl hydrocarbon receptor	
AIFM1	NM_004208.2	PDCD8,NAMSD,AUNX1;programmed cell death 8 (apoptosis-inducing factor),neuropathy, axonal, motor-sensory with deafness and mental retardation (Cowchock syndrome),apoptosis-inducing factor, mitochondrion-associated, 1,apoptosis inducing factor, mitochondria associated 1,auditory neuropathy, X-linked recessive 1	apoptosis inducing factor mitochondria associated 1	
AK4	NM_001005353.1	AK3,AK3L1;adenylate kinase 3,adenylate kinase 3-like 1	adenylate kinase 4	
AKT1	NM_001014432.1	v-akt murine thymoma viral oncogene homolog 1	AKT serine/threonine kinase 1	
AKT2	NM_001626.4	v-akt murine thymoma viral oncogene homolog 2	AKT serine/threonine kinase 2	
AKT3	NM_005465.4	v-akt murine thymoma viral oncogene homolog 3	AKT serine/threonine kinase 3	
ALDH1A1	NM_000689.4	PUM81,ALDH1;aldehyde dehydrogenase 1 family, member A1	aldehyde dehydrogenase 1 family member A1	
ALDH1A3	NM_000693.2	ALDH6;aldehyde dehydrogenase 1 family, member A3	aldehyde dehydrogenase 1 family member A3	
ALDH1B1	NM_000692.3	ALDH5;aldehyde dehydrogenase 1 family, member B1	aldehyde dehydrogenase 1 family member B1	
ALDH3A1	NM_000691.3	ALDH3;aldehyde dehydrogenase 3 family, member A1	aldehyde dehydrogenase 3 family member A1	
ALDH3B2	NM_000695.3	ALDH8;aldehyde dehydrogenase 3 family, member B2	aldehyde dehydrogenase 3 family member B2	
ALDOA	NM_000034.3	aldolase A, fructose-bisphosphate	aldolase, fructose-bisphosphate A	LOC112694756 (NM_001365307;NM_001365304;NM_001365305)
ALDOB	NM_000035.3	aldolase B, fructose-bisphosphate	aldolase, fructose-bisphosphate B	
ALOX5	NM_000698.2		arachidonate 5-lipoxygenase	
ANAPC4	NM_013367.2		anaphase promoting complex subunit 4	
ANGPT1	NM_001146.3		angiotensin 1	
APH1A	NM_001077628.1	anterior pharynx defective 1 homolog A (C. elegans),APH1A gamma secretase subunit	aph-1 homolog A, gamma-secretase subunit	
APOB	NM_000384.2	apolipoprotein B (including Ag(x) antigen)	apolipoprotein B	
APOC3	NM_000040.1	apolipoprotein C-III	apolipoprotein C3	
AQP1	NM_198098.4	CO;Colton blood group,aquaporin 1 (channel-forming integral protein, 28kDa),aquaporin 1 (channel-forming integral protein, 28kDa, CO blood group),aquaporin 1	aquaporin 1 (Colton blood group)	
AQP7	NM_001170.2	AQP7L	aquaporin 7	
ARG1	NM_000045.3	arginase, liver	arginase 1	
ASB4	NM_016116.2	ankyrin repeat and SOCS box-containing 4	ankyrin repeat and SOCS box containing 4	
ATF4	NM_001675.2	TXREB;activating transcription factor 4 (tax-responsive enhancer element B67)	activating transcription factor 4	
ATM	NM_000051.3	ATA,ATDC,ATC,ATD;ataxia telangiectasia mutated (includes complementation groups A, C and D),ataxia telangiectasia mutated	ATM serine/threonine kinase	
ATP6V1G3	NM_133262.2	ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G isoform 3,ATPase, H+ transporting, lysosomal 13kDa, V1 subunit G3	ATPase H+ transporting V1 subunit G3	
ATP7A	NM_000052.7	MNK;Menkes syndrome,ATPase, Cu++ transporting, alpha polypeptide	ATPase copper transporting alpha	
ATR	NM_001184.2	ataxia telangiectasia and Rad3 related	ATR serine/threonine kinase	
B4GALT1	NM_001497.3	GGTB2;UDP-Gal:beta-GlcNAc beta 1,4-galactosyltransferase, polypeptide 1	beta-1,4-galactosyltransferase 1	
BAK1	NM_001188.3	CDN1,BCL2-antagonist/killer 1	BCL2 antagonist/killer 1	
BATF	NM_006399.3	basic leucine zipper transcription factor, ATF-like	basic leucine zipper ATF-like transcription factor	
BAX	NM_138761.3	BCL2-associated X protein,BCL2 associated X protein	BCL2 associated X, apoptosis regulator	
BCL2	NM_000657.2	B-cell CLL/lymphoma 2,BCL2, apoptosis regulator	BCL2 apoptosis regulator	
BCL2L1	NM_001191.3		BCL2 like 1	
BCL6	NM_001706.2	ZNF51;zinc finger protein 51,B cell CLL/lymphoma 6,BCL6, transcription repressor	BCL6 transcription repressor	
BID	NM_197966.2		BH3 interacting domain death agonist	
BLK	NM_001715.2	B lymphoid tyrosine kinase	BLK proto-oncogene, Src family tyrosine kinase	
BMP2	NM_001200.2	BMP2A	bone morphogenetic protein 2	
BMP8A/B	XM_005271149.4	BMP8;bone morphogenetic protein 8 (osteogenic protein 2)	bone morphogenetic protein 8a/b	
BPI	NM_001725.2	bactericidal/permeability-increasing protein	bactericidal permeability increasing protein	
BRWD1	NM_001007246.2	C21orf107,WDR9;chromosome 21 open reading frame 107,WD repeat domain 9	bromodomain and WD repeat domain containing 1	
BST2	NM_004335.2		bone marrow stromal cell antigen 2	
BTX	NM_000061.1	AGMX1,IMD1;Bruton agammaglobulinemia tyrosine kinase	Bruton tyrosine kinase	
BTLA	NM_181780.2		B and T lymphocyte associated	
BTRC	NM_001256856.1	beta-transducin repeat containing	beta-transducin repeat containing E3 ubiquitin protein ligase	
CACNB2	NM_201572.4	MYSB,CACNLB2;calcium channel, voltage-dependent, beta 2 subunit	calcium voltage-gated channel auxiliary subunit beta 2	
CACNB4	NM_000726.3	calcium channel, voltage-dependent, beta 4 subunit	calcium voltage-gated channel auxiliary subunit beta 4	
CALM1	NM_006888.4	CALML2;calmodulin 1 (phosphorylase kinase, delta)	calmodulin 1	
CAMK2D	NM_172127.1	CAMKD;calcium/calmodulin-dependent protein kinase (CaM kinase) II delta	calcium/calmodulin dependent protein kinase II delta	
CARD11	NM_032415.2	caspase recruitment domain family, member 11	caspase recruitment domain family member 11	
CARD16	NM_001017534.1	caspase recruitment domain family, member 16	caspase recruitment domain family member 16	
CASP3	NM_004346.3	caspase 3, apoptosis-related cysteine protease,caspase 3, apoptosis-related cysteine peptidase	caspase 3	
CASP8	NM_001080124.1	caspase 8, apoptosis-related cysteine protease,caspase 8, apoptosis-related cysteine peptidase	caspase 8	
CASP9	XM_011542270.1	caspase 9, apoptosis-related cysteine protease,caspase 9, apoptosis-related cysteine peptidase	caspase 9	
CBL	NM_005188.3	CBL2;Cas-Br-M (murine) ecotropic retroviral transforming sequence,Cbl proto-oncogene, E3 ubiquitin protein ligase	Cbl proto-oncogene	
CBLB	NM_170662.3	Cas-Br-M (murine) ecotropic retroviral transforming sequence b,Cas-Br-M (murine) ecotropic retroviral transforming sequence b,Cbl proto-oncogene B, E3 ubiquitin protein ligase	Cbl proto-oncogene B	
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	
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	
CCL20	NM_001130046.1	SCYA20;small inducible cytokine subfamily A (Cys-Cys), member 20,chemokine (C-C motif) ligand 20	C-C motif chemokine ligand 20	
CCL21	NM_002989.2	SCYA21;small inducible cytokine subfamily A (Cys-Cys), member 21,chemokine (C-C motif) ligand 21	C-C motif chemokine ligand 21	

CCL22	NM_002990.4	SCYA22;small inducible cytokine subfamily A (Cys-Cys), member 22,chemokine (C-C motif) ligand 22	C-C motif chemokine ligand 22	
CCL3/L1	NM_002983.3		C-C motif chemokine ligand 3/L1	CCL3L3 (NM_001001437)
CCL4/L1	NM_002984.2		C-C motif chemokine ligand 4/L1	
CCL5	NM_002985.2	D17S136E,SCYA5;small inducible cytokine A5 (RANTES),chemokine (C-C motif) ligand 5	C-C motif chemokine ligand 5	
CCNA1	NM_003914.3		cyclin A1	
CCNB1	NM_031966.3	CCNB	cyclin B1	
CCNB3	NM_033031.2		cyclin B3	
CCNC	NM_005190.3		cyclin C	
CNTN1	NM_001240.2	HIVE1;human immunodeficiency virus type 1 (HIV-1) expression (elevated) 1	cyclin T1	
CNTN2	NM_058241.2		cyclin T2	
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	
CCR5	NM_000579.3	CMKBR5;chemokine (C-C motif) receptor 5,chemokine (C-C motif) receptor 5 (gene/pseudogene)	C-C motif chemokine receptor 5	
CCR7	NM_001838.3	CMKBR7,EBI1;chemokine (C-C motif) receptor 7	C-C motif chemokine receptor 7	
CD101	NM_004258.3	IGSF2;immunoglobulin superfamily, member 2	CD101 molecule	
CD14	NM_000591.2	CD14 antigen	CD14 molecule	
CD160	NM_007053.3	CD160 antigen	CD160 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	
CD200R1	NM_138806.3	MOX2R;MOX2 receptor	CD200 receptor 1	
CD209	NM_001144899.1	CD209 antigen	CD209 molecule	
CD22	NM_001771.2	CD22 antigen	CD22 molecule	
CD226	NM_001303618.1	CD226 antigen	CD226 molecule	
CD244	NM_001166663.1	natural killer cell receptor 2B4,CD244 natural killer cell receptor 2B4,CD244 molecule, natural killer cell receptor 2B4	CD244 molecule	
CD27	NM_001242.4	TNFRSF7;tumor necrosis factor receptor superfamily, member 7	CD27 molecule	
CD274	NM_014143.3	PDCD1LG1;programmed cell death 1 ligand 1,CD274 antigen	CD274 molecule	
CD276	NM_001024736.1	CD276 antigen	CD276 molecule	
CD28	NM_001243077.1	CD28 antigen (Tp44)	CD28 molecule	
CD33	NM_001177608.1	CD33 antigen (gp67)	CD33 molecule	
CD38	NM_001775.2	CD38 antigen (p45)	CD38 molecule	
CD3D	NM_000732.4	T3D;CD3d antigen, delta polypeptide (TIT3 complex),CD3d molecule, delta (CD3-TCR complex)	CD3d molecule	
CD3E	NM_000733.3	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	
CD40	NM_001250.4	TNFRSF5;tumor necrosis factor receptor superfamily, member 5,CD40 molecule, TNF receptor superfamily member 5	CD40 molecule	
CD40LG	NM_000074.2	HIGM1,IMD3,TNFRSF5;tumor necrosis factor (ligand) superfamily, member 5 (hyper-IgM syndrome)	CD40 ligand	
CD45R0	NM_080921.3		protein tyrosine phosphatase receptor type C	PTPRC (NM_080921) isoform specific
CD45RA	NM_002838.4		protein tyrosine phosphatase receptor type C	PTPRC (NM_002838) isoform specific
CD48	NM_001778.2	BCM1;CD48 antigen (B-cell membrane protein),CD48 molecule	CD48 molecule	
CD5	NM_014207.2	LEU1;CD5 antigen (p56-62)	CD5 molecule	
CD6	NM_001254751.1	CD6 antigen	CD6 molecule	
CD68	NM_001251.2	CD68 antigen	CD68 molecule	
CD69	NM_001781.1	CD69 antigen (p60, early T-cell activation antigen)	CD69 molecule	
CD70	NM_001252.2	CD27LG,TNFRSF7;tumor necrosis factor (ligand) superfamily, member 7	CD70 molecule	
CD72	NM_001782.2	CD72 antigen	CD72 molecule	
CD79B	NM_001039933.1	IGB;CD79B antigen (immunoglobulin-associated beta),CD79b molecule, immunoglobulin-associated beta	CD79b molecule	
CD80	NM_005191.3	CD28LG,CD28LG1;CD80 antigen (CD28 antigen ligand 1, B7-1 antigen),CD80 molecule	CD80 molecule	
CD84	NM_003874.3	CD84 antigen (leukocyte antigen),CD84 molecule	CD84 molecule	
CD86	NM_175862.4	CD28LG2;CD86 antigen (CD28 antigen ligand 2, B7-2 antigen)	CD86 molecule	
CD8A	NM_001768.6	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	CD8B2 (NM_001349727;NM_001368307)
CD96	NM_005816.4	CD96 antigen	CD96 molecule	
CDC14B	NM_01077181.1	CDC14 (cell division cycle 14, S. cerevisiae) homolog B,CDC14 cell division cycle 14 homolog B (S. cerevisiae)	cell division cycle 14B	
CDC16	NM_003903.3	CDC16 (cell division cycle 16, S. cerevisiae, homolog),CDC16 cell division cycle 16 homolog (S. cerevisiae),cell division cycle 16 homolog (S. cerevisiae)	cell division cycle 16	
CDC20	NM_001255.2	CDC20 (cell division cycle 20, S. cerevisiae, homolog),CDC20 cell division cycle 20 homolog (S. cerevisiae),cell division cycle 20 homolog (S. cerevisiae)	cell division cycle 20	
CDC25A	NM_001789.2	cell division cycle 42 (GTP-binding protein, 25kD),cell division cycle 42 (GTP binding protein, 25kDa)	cell division cycle 25A	
CDC42	NM_001039802.1	UVO;cadherin 1, type 1, E-cadherin (epithelial)	cell division cycle 42	
CDH1	NM_004360.2	BWCR,BWS;Beckwith-Wiedemann syndrome,cyclin-dependent kinase inhibitor 1C (p57, Kip2)	cadherin 1	
CDKN1C	NM_000076.2	cyclin-dependent kinase inhibitor 2C (p18, inhibits CDK4)	cyclin dependent kinase inhibitor 1C	
CDKN2C	NM_001262.2		cyclin dependent kinase inhibitor 2C	
CDY2A	NM_004825.2	CDY2;chromodomain protein, Y chromosome, 2,chromodomain protein, Y-linked, 2	chromodomain Y-linked 2A	CDY2B (NM_001001722), CDY1B (NM_001003895;NM_001003894), CDY1 (NM_170723;NM_004680)
CEACAM1	NM_001712.4	BGP;carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein),carcinoembryonic antigen related cell adhesion molecule 1	CEACAM5 (NM_001291484;NM_004363;NM_001308398), CEACAM6 (NM_002483)	
CEACAM3	NM_001815.3	CGM1;carcinoembryonic antigen-related cell adhesion molecule 3,carcinoembryonic antigen related cell adhesion molecule 3	CEA cell adhesion molecule 1	
CEBPB	NM_005194.4	TCF5;CCAAT/enhancer binding protein (C/EBP), beta,CCAAT/enhancer binding protein beta	CEA cell adhesion molecule 3	
CEBPD	NM_005195.3	CCAAT/enhancer binding protein (C/EBP), delta,CCAAT/enhancer binding protein delta	CCAAT enhancer binding protein beta	
CER1	NM_005454.2	cerberus 1 (Xenopus laevis) homolog (cysteine knot superfamily),cerberus 1, cysteine knot superfamily, homolog (Xenopus laevis)	CCAAT enhancer binding protein delta	
CFLAR	NM_001127183.1	CASP8AP1;CASP8 and FADD-like apoptosis regulator	cerberus 1, DAN family BMP antagonist	sub-maximal isoform coverage due to non-overlapping transcript variants
CHEK1	NM_001114122.2	CHK1 (checkpoint, S.pombe) homolog,CHK1 checkpoint homolog (S. pombe)	CASP8 and FADD like apoptosis regulator	
CHRD	NM_003741.2		checkpoint kinase 1	
			chordin	

CHRD1	NM_001143981.1	MGC1;megalocornea 1 (X-linked)	chordin like 1	
CHUK	NM_001320928.1	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	
CISH	NM_145071.2	cytokine inducible SH2-containing protein	cytokine inducible SH2 containing protein	
CLCA1	NM_001285.3	chloride channel, calcium activated, family member 1, chloride channel regulator 1	chloride channel accessory 1	
CLCF1	NM_013246.2	CRLF1 associated cytokine-like factor 1	cardiotrophin like cytokine factor 1	
CMKLR1	NM_004072.2	chemokine-like receptor 1	chemerin chemokine-like receptor 1	
CMV UL83	HHV5wtgp077.1		Human cytomegalovirus 65 kDa phosphoprotein	
CNTF	NM_000614.4		ciliary neurotrophic factor	
CPA3	NM_001870.2	carboxypeptidase A3 (mast cell)	carboxypeptidase A3	
CPA4	NM_016352.3		carboxypeptidase A4	
CPT1C	NM_001199752.1		carnitine palmitoyltransferase 1C	
CR2	NM_001006658.1	complement component (3d/Epstein Barr virus) receptor 2, complement component 3d receptor 2	complement C3d receptor 2	
CREB3L2	NM_194071.3		cAMP responsive element binding protein 3 like 2	
CREB5	NM_182898.2		cAMP responsive element binding protein 5	
CREBBP	NM_004380.2	RST5;Rubinstein-Taybi syndrome	CREB binding protein	
CRLF1	NM_004750.4		cytokine receptor like factor 1	
CRLF2	NM_022148.3		cytokine receptor like factor 2	
CRTAM	NM_019604.2		cytotoxic and regulatory T cell molecule	
CSF1	NM_000757.4	colony stimulating factor 1 (macrophage)	colony stimulating factor 1	
CSF1R	NM_005211.3	FMS;McDonough feline sarcoma viral (v-fms) oncogene homolog	colony stimulating factor 1 receptor	
CSF2	NM_000758.3	colony stimulating factor 2 (granulocyte-macrophage)	colony stimulating factor 2	
CSF3	NM_000759.3	GCSF,G-CSF,C17orf33;chromosome 17 open reading frame 33,colony stimulating factor 3 (granulocyte)	colony stimulating factor 3	
CSF3R	NM_000760.3	CD114;colony stimulating factor 3 receptor (granulocyte)	colony stimulating factor 3 receptor	
				GH1 (NM_022559;NM_000515;NM_022560), CSHL1 (NM_001318;NM_001321069;NM_001321067;NM_001321068;NM_022581;NM_022580;NM_022579), CSH1 (NM_001317)
CSH2/GH2	NM_020991.3		chorionic somatomammotropin hormone 2 / growth hormone 2	
CTBP2	NM_001329.4		C-terminal binding protein 2	
CTF1	NM_001330.5		cardiotrophin 1	
CTLA4	NM_005214.3	CELIAC3,ITDM12;celiac disease 3,insulin-dependent diabetes mellitus 12	cytotoxic T-lymphocyte associated protein 4	
CTSW	NM_001335.3	cathepsin W (lymphopain)	cathepsin W	
CUL1	NM_003592.2		culin 1	
CUL2	NM_003591.2		culin 2	
CXCL1/2/3	NM_002090.3		C-X-C motif chemokine ligand 1/2/3	
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	
CXCL8	NM_000584.3	IL8;interleukin 8,chemokine (C-X-C motif) ligand 8	C-X-C motif chemokine ligand 8	
CXCL9	NM_002416.2	CMK,MIG;monokine induced by gamma interferon,chemokine (C-X-C motif) ligand 9	C-X-C motif chemokine ligand 9	
CXCR3	NM_001504.1	GPR9;G protein-coupled receptor 9,chemokine (C-X-C motif) receptor 3	C-X-C motif chemokine receptor 3	
CXCR6	NM_006564.1	chemokine (C-X-C motif) receptor 6	C-X-C motif chemokine receptor 6	
CYLD	NM_001042412.1	CYLD1;cylindromatosis (turban tumor syndrome)	CYLD lysine 63 deubiquitinase	
CYP26A1	NM_000783.4	cytochrome P450, subfamily XXVIA, polypeptide 1, cytochrome P450, family 26, subfamily A, polypeptide 1	cytochrome P450 family 26 subfamily A member 1	
CYP26C1	NM_183374.2	cytochrome P450, family 26, subfamily C, polypeptide 1	cytochrome P450 family 26 subfamily C member 1	
CYP4A11/22	NM_001010969.3		cytochrome P450 family 4 subfamily A member 11/22	
CYP7A1	NM_000780.3	CYP7;cytochrome P450, subfamily VIIA (cholesterol 7 alpha-monooxygenase), polypeptide 1, cytochrome P450, family 7, subfamily A, polypeptide 1	cytochrome P450 family 7 subfamily A member 1	
CYP8B1	NM_004391.2	cytochrome P450, subfamily VIII B (sterol 12-alpha-hydroxylase), polypeptide 1, cytochrome P450, family 8, subfamily B, polypeptide 1	cytochrome P450 family 8 subfamily B member 1	
DAPP1	NM_014395.3		dual adaptor of phosphotyrosine and 3-phosphoinositides 1	
DCN	NM_001920.3		decorin	
DCTN6	NM_006571.3	dynactin 6	dynactin subunit 6	
DGKA	NM_001345.4	DAGK,DAGK1;diacylglycerol kinase, alpha (80kD), diacylglycerol kinase, alpha 80kDa	diacylglycerol kinase alpha	
DGKZ	NM_001105540.1	diacylglycerol kinase, zeta 104kDa	diacylglycerol kinase zeta	
DHRS3	NM_004753.4	dehydrogenase/reductase (SDR family) member 3	dehydrogenase/reductase 3	
DIABLO	NM_138930.3	diablo, IAP-binding mitochondrial protein	diablo IAP-binding mitochondrial protein	
		LAD,GCSL;dihydroliipoamide dehydrogenase (E3 component of pyruvate dehydrogenase complex, 2-oxo-glutarate complex, branched chain keto acid dehydrogenase complex)	dihydroliipoamide dehydrogenase	
DLD	NM_000108.3		delta like canonical Notch ligand 3	
DLL3	NM_016941.3	delta (Drosophila)-like 3,delta-like 3 (Drosophila)	delta like canonical Notch ligand 3	
DLL4	NM_019074.2	delta-like 4 homolog (Drosophila),delta-like 4 (Drosophila)	delta like canonical Notch ligand 4	
DNM1L	NM_001278463.1		dynamitin 1 like	
DNMT3A	NM_022552.5	DNA (cytosine-5)-methyltransferase 3 alpha	DNA methyltransferase 3 alpha	
DNMT3L	NM_013369.2	DNA (cytosine-5)-methyltransferase 3-like	DNA methyltransferase 3 like	
DRAP1	NM_006442.2		DR1 associated protein 1	
DTX4	NM_015177.1	deltex homolog 4 (Drosophila)	deltex E3 ubiquitin ligase 4	
DUSP1	NM_004417.2	PTPN10	dual specificity phosphatase 1	
DUSP9	NM_001395.2		dual specificity phosphatase 9	
DVL1	NM_004421.2	dishevelled 1 (homologous to Drosophila dsh),dishevelled, dsh homolog 1 (Drosophila)	dishevelled segment polarity protein 1	
DYDC1	NM_001269053.1		DPY30 domain containing 1	
E2F1	NM_005225.1	RBBP3	E2F transcription factor 1	
E2F2	NM_004091.3		E2F transcription factor 2	
E2F5	NM_001083588.1	E2F transcription factor 5, p130-binding	E2F transcription factor 5	
		LMP2;proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2),large multifunctional peptidase 2,proteasome (prosome, macropain) subunit, beta type, 9,proteasome subunit beta 9	proteasome 20S subunit beta 9	
EBV LMP2	HHV4tp2_gp02.1		enoyl Coenzyme A hydratase, short chain, 1, mitochondrial, enoyl-CoA hydratase, short chain, 1, mitochondrial	
ECHS1	NM_004092.3		enoyl-CoA hydratase, short chain 1	
EFNA1	NM_182685.1	TNFAIP4,EPLG1;ephrin-A1	ephrin A1	
EGF	NM_001963.4	epidermal growth factor (beta-urogastrone)	epidermal growth factor	
		ERBB;epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog)	epidermal growth factor receptor	
EGFR	NM_201282.1		epidermal growth factor receptor	
EHHADH	NM_001166415.1	ECHD;enoyl-Coenzyme A, hydratase/3-hydroxyacyl Coenzyme A dehydrogenase	enoyl-CoA hydratase and 3-hydroxyacyl CoA dehydrogenase	
EIF4B	NM_001417.4		eukaryotic translation initiation factor 4B	
ELOVL2	NM_017770.3	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 2	ELOVL fatty acid elongase 2	
ELOVL3	NM_152310.3	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 3	ELOVL fatty acid elongase 3	
		STGD2,STGD3,SCA34;elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 4, spinocerebellar ataxia 34	ELOVL fatty acid elongase 4	
ELOVL4	NM_022726.3		ELOVL fatty acid elongase 4	
ELOVL7	NM_024930.1	ELOVL family member 7, elongation of long chain fatty acids (yeast)	ELOVL fatty acid elongase 7	
ENTPD1	NM_001098175.1	CD39	ectonucleoside triphosphate diphosphohydrolase 1	
ENTPD2	NM_203468.1	CD39L1	ectonucleoside triphosphate diphosphohydrolase 2	

EOMES	NM_005442.2	eomesodermin (Xenopus laevis) homolog	eomesodermin
EYA1	NM_172059.2	BOR;eyes absent (Drosophila) homolog 1,eyes absent homolog 1 (Drosophila)	EYA transcriptional coactivator and phosphatase 1
EYA4	NM_004100.4	DFNA10,CMD1J;eyes absent (Drosophila) homolog 4,eyes absent homolog 4 (Drosophila)	EYA transcriptional coactivator and phosphatase 4
FABP1	NM_001443.1	fatty acid binding protein 1, liver	fatty acid binding protein 1
FABP4	NM_001442.2		fatty acid binding protein 4
FADD	NM_003824.3	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
FAS	NM_00043.4	FAS1,APT1,TNFRSF6;tumor necrosis factor receptor superfamily, member 6,Fas (TNF receptor superfamily, member 6)	Fas cell surface death receptor
FASLG	NM_000639.1	APT1LG1,TNFSF6;tumor necrosis factor (ligand) superfamily, member 6,Fas ligand (TNF superfamily, member 6)	Fas ligand
FBLL1	NM_001355274.2		fibrillaritin like 1
FBP2	NM_003837.2	fructose-1,6-bisphosphatase 2	fructose-bisphosphatase 2
FBXW4	NM_022039.3	SHFM3;split hand/foot malformation (ectrodactyly) type 3,F-box and WD-40 domain protein 4	F-box and WD repeat domain containing 4
FCAR	NM_133278.2	Fc fragment of IgA, receptor for	Fc fragment of IgA receptor
FCER1G	NM_004106.1	Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	Fc fragment of IgE receptor Ig
FCER2	NM_002002.4	CD23A,FC2E2;Fc fragment of IgE, low affinity II, receptor for (CD23A),Fc fragment of IgE, low affinity II, receptor for (CD23)	Fc fragment of IgE receptor II
FCGR1A/B	NM_001017986.3	Fc fragment of IgG, high affinity I, receptor for (CD64),Fc fragment of IgG, high affinity I, receptor (CD64)	Fc fragment of IgG receptor Ia/b
FCGR2B	NM_004001.4	FCG2,FCGR2;Fc fragment of IgG, low affinity II, receptor for (CD32),Fc fragment of IgG, low affinity II, receptor (CD32)	Fc fragment of IgG receptor IIb
FCGR3A/B	NM_000570.4	FCGR3,FCG3;Fc fragment of IgG, low affinity IIIb, receptor for (CD16),Fc fragment of IgG, low affinity IIIb, receptor (CD16b)	Fc fragment of IgG receptor IIIa/b
FCRL2	NM_001159488.1	SPAP1;SH2 domain-containing phosphatase anchor protein 1,Fc receptor-like 2	Fc receptor like 2
FCRL4	NM_031282.2	Fc receptor-like 4	Fc receptor like 4
FGA	NM_021871.2	fibrinogen, A alpha polypeptide	fibrinogen alpha chain
FGF10	NM_004465.1		fibroblast growth factor 10
FGF18	NM_003862.1		fibroblast growth factor 18
FGF19	NM_005117.2		fibroblast growth factor 19
FGF2	NM_002006.4	FGFB;fibroblast growth factor 2 (basic)	fibroblast growth factor 2
FGF22	NM_020637.1		fibroblast growth factor 22
FOS	NM_005252.3	v-fos FBJ murine osteosarcoma viral oncogene homolog,FBJ murine osteosarcoma viral oncogene homolog	Fos proto-oncogene, AP-1 transcription factor subunit
FOXO1	NM_002015.3	FKHR,FOXO1A;forkhead homolog in rhabdomyosarcoma	forkhead box O1
FOXO3	NM_001455.2	FKHRL1,FOXO3A	forkhead box O3
FOXP3	NM_014009.3	IPEX;immune dysregulation, polyendocrinopathy, enteropathy, X-linked	forkhead box P3
FPR1	NM_002029.3		formyl peptide receptor 1
FUT4	NM_002033.2	CD15,FCT3A,ELFT;ELAM ligand fucosyltransferase	fucosyltransferase 4
FYN	NM_002037.3	FYN oncogene related to SRC, FGR, YES	FYN proto-oncogene, Src family tyrosine kinase
FZD2	NM_001466.2	frizzled (Drosophila) homolog 2,frizzled homolog 2 (Drosophila),frizzled 2, seven transmembrane spanning receptor,frizzled family receptor 2	frizzled class receptor 2
FZD7	NM_003507.1	frizzled (Drosophila) homolog 7,frizzled homolog 7 (Drosophila),frizzled 7, seven transmembrane spanning receptor,frizzled family receptor 7	frizzled class receptor 7
GADD45A	NM_001199741.1	DDIT1;growth arrest and DNA-damage-inducible, alpha	growth arrest and DNA damage inducible alpha
GAPDH5	NM_014364.4	GAPD5	glyceraldehyde-3-phosphate dehydrogenase, spermatogenic
GATA3	NM_001002295.1	GATA-binding protein 3	GATA binding protein 3
GATA6	NM_005257.3	GATA-binding protein 6	GATA binding protein 6
GBP2	NM_004120.3	guanylate binding protein 2, interferon-inducible	guanylate binding protein 2
GBP3	NM_018284.3		guanylate binding protein 3
GCKR	NM_001486.3	glucokinase (hexokinase 4) regulatory protein	glucokinase regulator
GDF6	NM_001001557.3	SGM1;segmentation syndrome 1	growth differentiation factor 6
GHR	NM_000163.2		growth hormone receptor
GK	NM_000167.3		glycerol kinase
GLS	NM_014905.3		glutaminase
GLS2	NM_013267.2	glutaminase 2 (liver, mitochondrial)	glutaminase 2
GLUD1/2	NM_012084.3	GLUDP1;glutamate dehydrogenase pseudogene 1	glutamate dehydrogenase 1/2
GNG12	NM_018841.3	guanine nucleotide binding protein (G protein), gamma 12	G protein subunit gamma 12
GNLY	NM_006433.2	LAG2	granulysin
GOT2	NM_002080.3	glutamic-oxaloacetic transaminase 2, mitochondrial (aspartate aminotransferase 2),glutamic-oxaloacetic transaminase 2, mitochondrial	glutamic-oxaloacetic transaminase 2
GRAP2	NM_001291826.1		GRB2 related adaptor protein 2
GRB10	NM_001001549.2	growth factor receptor-bound protein 10	growth factor receptor bound protein 10
GRB2	NM_002086.4	growth factor receptor-bound protein 2	growth factor receptor bound protein 2
GREM2	NM_022469.4	gremlin 2, cysteine knot superfamily, homolog (Xenopus laevis),gremlin 2	gremlin 2, DAN family BMP antagonist
GSK3B	NM_002093.2		glycogen synthase kinase 3 beta
GYS2	NM_021957.3	glycogen synthase 2 (liver)	glycogen synthase 2
GZMA	NM_006144.2	HFSP,CTLA3;granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)	granzyme A
GZMB	NM_004131.3	CTLA1,CSPB;granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)	granzyme B
GZMH	NM_033423.4	CTSGL2;granzyme H (cathepsin G-like 2, protein h-CCPX)	granzyme H
GZMK	NM_002104.2	granzyme K (serine protease, granzyme 3; tryptase II),granzyme K (granzyme 3; tryptase II)	granzyme K
GZMM	NM_005317.2	granzyme M (lymphocyte met-ase 1)	granzyme M
HADHB	NM_000183.2	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit,hydroxyacyl-CoA dehydrogenase/3-ketoacyl-CoA thiolase/enoyl-CoA hydratase (trifunctional protein), beta subunit	hydroxyacyl-CoA dehydrogenase trifunctional multienzyme complex subunit beta
HAVCR2	NM_032782.4		hepatitis A virus cellular receptor 2
HCST	NM_001007469.1	PIK3AP;phosphoinositide-3-kinase adaptor protein	hematopoietic cell signal transducer
HDAC7	NM_001098416.2	HDAC7A;histone deacetylase 7A	histone deacetylase 7
HDAC9	NM_178423.2		histone deacetylase 9
HDC	NM_002112.3		histidine decarboxylase
HEY1	NM_012258.3	hairly/enhancer-of-split related with YRPW motif 1,hes-related family bHLH transcription factor with YRPW motif 1	hes related family bHLH transcription factor with YRPW motif 1
HEY2	NM_012259.2	hairly/enhancer-of-split related with YRPW motif 2,hes-related family bHLH transcription factor with YRPW motif 2	hes related family bHLH transcription factor with YRPW motif 2
HGF	NM_000601.4	DFNB39;deafness, autosomal recessive 39,hepatocyte growth factor (hepapoietin A; scatter factor)	hepatocyte growth factor
HIPK1	NM_152696.3		homeodomain interacting protein kinase 1
HLA-DPA1	NM_033554.3	HLA-DP1A	major histocompatibility complex, class II, DP alpha 1
HLA-DPB1	NM_002121.5	HLA-DP1B	major histocompatibility complex, class II, DP beta 1
HLA-DQA1	NM_002122.3	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-DQB1	NM_002123.3	HLA-DQB	major histocompatibility complex, class II, DQ beta 1
HLA-DQB2	NM_001198858.1	HLA-DXB	major histocompatibility complex, class II, DQ beta 2
HLA-DRA	NM_019111.3	HLA-DRA1	major histocompatibility complex, class II, DR alpha
HLA-DRB1/3	NM_002124.3	HLA-DR3B	major histocompatibility complex, class II, DR beta 1/3

HLA-E	NM_00516.5		major histocompatibility complex, class I, E	
HMGB1	NM_002128.4	HMG1;high-mobility group (nonhistone chromosomal) protein 1,high-mobility group box 1	high mobility group box 1	
HNF1A	NM_000545.6	MODY3,TCF1;transcription factor 1, hepatic; LF-B1, hepatic nuclear factor (HNF1), albumin proximal factor	HNF1 homeobox A	
HRAS	NM_005343.2	HRAS1;v-Ha-ras Harvey rat sarcoma viral oncogene homolog,Harvey rat sarcoma viral oncogene homolog	HRas proto-oncogene, GTPase	
HSD11B1	NM_181755.2	HSD11B,HSD11;hydroxysteroid (11-beta) dehydrogenase 1	hydroxysteroid 11-beta dehydrogenase 1	
ICAM1	NM_000201.2		intercellular adhesion molecule 1	
ICOS	NM_012092.3	inducible T-cell costimulator	inducible T cell costimulator	
ICOSLG	NM_015259.5	ICOSL;inducible T-cell costimulator ligand	inducible T cell costimulator ligand	LOC102723996 (NM_001363770)
ID2	NM_002166.4	inhibitor of differentiation 2,inhibitor of DNA binding 2, dominant negative helix-loop-helix protein	inhibitor of DNA binding 2	
IDO1	NM_002164.5	IDO,INDO;indoleamine-pyrrole 2,3 dioxygenase	indoleamine 2,3-dioxygenase 1	
IDO2	NM_194294.2	INDOL1;indoleamine-pyrrole 2,3 dioxygenase-like 1	indoleamine 2,3-dioxygenase 2	
IFIT1	NM_001548.3	G10P1,IFI56,IFNA1;interferon-induced protein with tetratricopeptide repeats 1	interferon induced protein with tetratricopeptide repeats 1	
IFIT3	NM_001031683.2	IFIT4;interferon-induced protein with tetratricopeptide repeats 4,interferon-induced protein with tetratricopeptide repeats 3	interferon induced protein with tetratricopeptide repeats 3	
IFNA1/13	NM_006900.3		interferon alpha 1/13	
IFNA4/7/10/17/21	NM_021268.2		interferon alpha 4/7/10/17/21	
IFNA5	NM_002169.2	interferon, alpha 5	interferon alpha 5	
IFNA6	NM_021002.2	interferon, alpha 6	interferon alpha 6	
IFNG	NM_000619.2		interferon gamma	
IFNK	NM_020124.2	interferon, kappa	interferon kappa	
IGHA1	ENST00000641837.1		immunoglobulin heavy constant alpha 1	
IGHD	ENST00000613640.1		immunoglobulin heavy constant delta	
IGHG1	ENST00000390542.1		immunoglobulin heavy constant gamma 1 (G1m marker)	
IGHG2	ENST00000390545.1		immunoglobulin heavy constant gamma 2 (G2m marker)	
IGHG3	ENST00000390551.1		immunoglobulin heavy constant gamma 3 (G3m marker)	
IGHG4	ENST00000390543.1		immunoglobulin heavy constant gamma 4 (G4m marker)	
IGHM	ENST00000637539.1		immunoglobulin heavy constant mu	
IGHV4-59	ENST00000390629.1		immunoglobulin heavy variable 4-59	
IGKC	ENST00000390237.1		immunoglobulin kappa constant	
			IGLL1 (NM_152855;NM_020070;NM_001369906), IGLL5 (NM_001256296;NM_001178126)	
IGLC1	ENST00000390321.1	IGLC;immunoglobulin lambda constant 1 (Mcg marker)	immunoglobulin lambda constant 1	
IKZF1	NM_006060.4	ZNFN1A1;zinc finger protein, subfamily 1A, 1 (Ikaros),IKAROS family zinc finger 1 (Ikaros)	IKAROS family zinc finger 1	
IL10	NM_000572.3		interleukin 10	
IL10RA	NM_001558.2	IL10R;interleukin 10 receptor, alpha	interleukin 10 receptor subunit alpha	
IL10RB	NM_000628.4	CRFB4,D21S58,D21S66;interleukin 10 receptor, beta	interleukin 10 receptor subunit beta	
IL11	NM_000641.3		interleukin 11	
IL11RA	NM_147162.1	interleukin 11 receptor, alpha	interleukin 11 receptor subunit alpha	
IL12A	NM_000882.2	NKSF1;interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)	interleukin 12A	
IL12B	NM_002187.2	NKSF2;interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)	interleukin 12B	
IL12RB1	NM_005535.1	IL12RB;interleukin 12 receptor, beta 1	interleukin 12 receptor subunit beta 1	
IL13	NM_002188.2		interleukin 13	
IL13RA1	NM_001560.3	interleukin 13 receptor, alpha 1	interleukin 13 receptor subunit alpha 1	
IL15	NM_000585.4		interleukin 15	
IL16	NM_004513.4	interleukin 16 (lymphocyte chemoattractant factor)	interleukin 16	
IL17A	NM_002190.2	CTLA8,IL17;interleukin 17 (cytotoxic T-lymphocyte-associated serine esterase 8)	interleukin 17A	
IL18	NM_001562.3	interleukin 18 (interferon-gamma-inducing factor)	interleukin 18	
IL1A	NM_000575.3	IL1	interleukin 1 alpha	
IL1B	NM_000576.2		interleukin 1 beta	
IL1R1	NM_001320984.1	IL1R,IL1RA;interleukin 1 receptor, type I	interleukin 1 receptor type 1	
IL1R2	NM_173343.1	IL1RB;interleukin 1 receptor, type II	interleukin 1 receptor type 2	
IL1RAPL1	NM_014271.3	IL1RAPL,MRX34,MRX21,MRX10;mental retardation, X-linked 34,mental retardation, X-linked 21,mental retardation, X-linked 10	interleukin 1 receptor accessory protein like 1	
IL1RL1	NM_016232.4		interleukin 1 receptor like 1	
IL1RL2	NM_001351447.1		interleukin 1 receptor like 2	
IL1RN	NM_000577.3		interleukin 1 receptor antagonist	
IL2	NM_000586.2		interleukin 2	
IL21	NM_021803.2		interleukin 21	
IL21R	NM_181079.4		interleukin 21 receptor	
IL24	NM_001185157.1	ST16	interleukin 24	
IL27RA	NM_004843.3	interleukin 27 receptor, alpha	interleukin 27 receptor subunit alpha	
IL2RA	NM_000417.2	IL2R,IDD10;insulin-dependent diabetes mellitus 10,interleukin 2 receptor, alpha	interleukin 2 receptor subunit alpha	
IL3	NM_000588.3	interleukin 3 (colony-stimulating factor, multiple)	interleukin 3	
IL31	NM_001014336.1		interleukin 31	
IL31RA	NM_139017.3		interleukin 31 receptor A	
IL36G	NM_019618.3	IL1F9;interleukin 1 family, member 9	interleukin 36 gamma	
IL4	NM_000589.2		interleukin 4	
IL5	NM_000879.2	interleukin 5 (colony-stimulating factor, eosinophil)	interleukin 5	
IL6	NM_000600.3	IFNB2;interleukin 6 (interferon, beta 2)	interleukin 6	
IL6R	NM_000565.2		interleukin 6 receptor	
IL6ST	NM_002184.2	interleukin 6 signal transducer (gp130, oncostatin M receptor)	interleukin 6 signal transducer	
IL7	NM_001199886.1		interleukin 7	
IL7R	NM_002185.3		interleukin 7 receptor	
IL9	NM_000590.1		interleukin 9	
IL9R	XM_011531151.1		interleukin 9 receptor	
INPP5D	NM_001017915.2	inositol polyphosphate-5-phosphatase, 145kD,inositol polyphosphate-5-phosphatase, 145kDa	inositol polyphosphate-5-phosphatase D	
INPPL1	NM_001567.2		inositol polyphosphate phosphatase like 1	
INS	NM_000207.2	IDDM2,IDDM1;insulin-dependent diabetes mellitus 2	insulin	
IRAK3	NM_007199.1	interleukin-1 receptor-associated kinase 3	interleukin 1 receptor associated kinase 3	
IRAK4	NM_001114182.1		interleukin 1 receptor associated kinase 4	
IRF2	NM_002199.3	MUM1	interferon regulatory factor 2	
IRF4	NM_002460.1		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	
ITCH	NM_001257138.1	itchy (mouse homolog) E3 ubiquitin protein ligase,itchy E3 ubiquitin protein ligase homolog (mouse)	itchy E3 ubiquitin protein ligase	
ITGA10	NM_003637.3	integrin, alpha 10	integrin subunit alpha 10	
ITGA6	NM_000210.1	integrin, alpha 6	integrin subunit alpha 6	
ITGAE	NM_002208.4	integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide)	integrin subunit alpha E	
ITGAL	NM_002209.2	CD11A;integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)	integrin subunit alpha L	

ITGAV	NM_002210.2	VNRA,MSK8,VTNR;antigen identified by monoclonal antibody L230,vitronectin receptor,integrin, alpha V (vitronectin receptor, alpha polypeptide, antigen CD51),integrin, alpha V	integrin subunit alpha V	
ITGAX	NM_000887.4	CD11C;integrin, alpha X (antigen CD11C (p150), alpha polypeptide),integrin, alpha X (complement component 3 receptor 4 subunit)	integrin subunit alpha X	
ITGB3	NM_000212.2	GP3A;integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	integrin subunit beta 3	
ITGB8	NM_002214.2	integrin, beta 8	integrin subunit beta 8	
ITPR1	NM_001099952.2	SCA15,SCA16,SCA29;spinocerebellar ataxia 15,spinocerebellar ataxia 16,spinocerebellar ataxia 29,inositol 1,4,5-trisphosphate receptor, type 1	inositol 1,4,5-trisphosphate receptor type 1	
ITPR2	NM_002223.2	inositol 1,4,5-trisphosphate receptor, type 2,inositol 1,4,5-trisphosphate receptor, type 2	inositol 1,4,5-trisphosphate receptor type 2	
JAG1	NM_000214.2	AGS,JAG1;Alagille syndrome,jagged 1	jagged canonical Notch ligand 1	
JAK1	NM_002227.1	JAK1B	Janus kinase 1	
JAK2	NM_004972.3		Janus kinase 2	
JAK3	NM_000215.2		Janus kinase 3	
JARID2	NM_001267040.1	JMJ;jumonji (mouse) homolog,Jumonji, AT rich interactive domain 2,jumonji, AT rich interactive domain 2	jumonji and AT-rich interaction domain containing 2	
JUN	NM_002228.4	v-jun avian sarcoma virus 17 oncogene homolog,jun oncogene	Jun proto-oncogene, AP-1 transcription factor subunit	
JUNB	NM_002229.2		JunB proto-oncogene, AP-1 transcription factor subunit	
JUND	NM_005354.4		JunD proto-oncogene, AP-1 transcription factor subunit	
KCNK2	NM_001017424.2	potassium channel, subfamily K, member 2,potassium channel, two pore domain subfamily K, member 2	potassium two pore domain channel subfamily K member 2	
KDM3A	NM_018433.6	JMJD1,JMJD1A;jumonji domain containing 1,jumonji domain containing 1A,lysine (K)-specific demethylase 3A	lysine demethylase 3A	
KIR2DL1/2	NM_014219.2	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 2	killer cell immunoglobulin like receptor, two lg domains and long cytoplasmic tail 1/2	KIR2DS2 (NM_001291700;NM_001291701;NM_012312;NM_001291696), LOC112267881 (NM_001368251), KIR3DL1 (NM_001322168;NM_013289)
KIR2DL3/4	NM_014511.3	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 4	killer cell immunoglobulin like receptor, two lg domains and long cytoplasmic tail 3/4	KIR2DL2 (NM_014219), KIR2DL5A (NM_020535), KIR3DL3 (NM_153443), KIR2DL5B (NM_001018081)
KIR2DL5A/B	NM_020535.3	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 5B	killer cell immunoglobulin like receptor, two lg domains and long cytoplasmic tail 5A/B	
KIR2DS1/4	NM_014512.1	killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 4	killer cell immunoglobulin like receptor, two lg domains and short cytoplasmic tail 1/4	LOC102725023 (NM_001360171), KIR2DS5 (NM_014513), KIR2DS2 (NM_001291700;NM_012312;NM_001291695;NM_001291696), KIR2DS3 (NM_012313)
KIR3DL1/2	NM_001322168.1	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2	killer cell immunoglobulin like receptor, three lg domains and long cytoplasmic tail 2/3	KIR3DS1 (NM_001282171;NM_001282170;NM_001083539), LOC112268355 (NM_001368254)
KIR3DL3	NM_153443.3	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 3	killer cell immunoglobulin like receptor, three lg domains and long cytoplasmic tail 3	
KLF2	NM_016270.2	Kruppel-like factor 2 (lung)	Kruppel like factor 2	
KLRB1	NM_002258.2	NKR,killer cell lectin-like receptor subfamily B, member 1	killer cell lectin like receptor B1	
KLRC1	NM_002259.3	NGG2,killer cell lectin-like receptor subfamily C, member 1	killer cell lectin like receptor C1	
KLRC2/3	NM_002260.3	killer cell lectin-like receptor subfamily C, member 3	killer cell lectin like receptor C2/3	
KLRD1	NM_001351060.1	CD94,killer cell lectin-like receptor subfamily D, member 1	killer cell lectin like receptor D1	
KLRG1	NM_001329099.1	killer cell lectin-like receptor subfamily G, member 1	killer cell lectin like receptor G1	
KLRK1	NM_007360.1	D12S2489E;DNA segment on chromosome 12 (unique) 2489 expressed sequence,killer cell lectin-like receptor subfamily K, member 1	killer cell lectin like receptor K1	
KRAS	NM_033360.2	KRAS2,y-Ki-ras2 Kirsten rat sarcoma 2 viral oncogene homolog,v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog	KRAS proto-oncogene, GTPase	
LAG3	NM_002286.5	lymphocyte-activation gene 3	lymphocyte activating 3	
LAIR1	NM_001289023.2	leukocyte-associated Ig-like receptor 1,leukocyte-associated immunoglobulin-like receptor 1	leukocyte associated immunoglobulin like receptor 1	
LAMB4	NM_001318046.1	laminin, beta 4	laminin subunit beta 4	
LAMP1	NM_005561.3	lysosomal-associated membrane protein 1	lysosomal associated membrane protein 1	
LAMTOR3	NM_001243736.1	MAP2K1P1,MAPKSP1;mitogen-activated protein kinase 1 interacting protein 1,MAPK scaffold protein 1	late endosomal/lysosomal adaptor, MAPK and MTOR activator 3	
LCK	NM_005356.2	lymphocyte-specific protein tyrosine kinase	LCK proto-oncogene, Src family tyrosine kinase	
LCP2	NM_005565.3	SLP76;lymphocyte cytosolic protein 2 (SH2 domain-containing leukocyte protein of 76kD),lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)	lymphocyte cytosolic protein 2	
LDHA	NM_005566.3		lactate dehydrogenase A	
LDHAL6A	NM_001144071.1		lactate dehydrogenase A like 6A	
LEF1	NM_016269.3	lymphoid enhancer-binding factor 1	lymphoid enhancer binding factor 1	
LEFTY1/2	NM_020997.4	TGF84,EBAF;endometrial bleeding associated factor (left-right determination, factor A; transforming growth factor beta superfamily)	left-right determination factor 1/2	
LEPR	NM_001003679.1		leptin receptor	
LGALS9	NM_002308.3	lectin, galactoside-binding, soluble, 9	galectin 9	LGALS9C (NM_001040078), LGALS9B (NM_001367292;NM_001042685)
LIF	NM_002309.4	leukemia inhibitory factor,LIF, interleukin 6 family cytokine	LIF interleukin 6 family cytokine	
LIFR	NM_002310.3	leukemia inhibitory factor receptor,leukemia inhibitory factor receptor alpha,LIF receptor alpha	LIF receptor subunit alpha	
LILRA1	NM_001278318.1	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1	leukocyte immunoglobulin like receptor A1	
LILRA3	NM_006865.3	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3	leukocyte immunoglobulin like receptor A3	
LILRA4	NM_012276.3	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 4	leukocyte immunoglobulin like receptor A4	
LILRB1	NM_001081637.1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1	leukocyte immunoglobulin like receptor B1	
LILRB2	NM_001278405.1	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2	leukocyte immunoglobulin like receptor B2	
LILRB3	NM_006864.3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3	leukocyte immunoglobulin like receptor B3	LILRA6 (NM_001360167)
LILRB4	NM_001278429.3	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 4	leukocyte immunoglobulin like receptor B4	
LPAR1	NM_001401.3	EDG2,endothelial differentiation, lysophosphatidic acid G-protein-coupled receptor, 2	lysophosphatidic acid receptor 1	
LPL	NM_000237.2	LIPD	lipoprotein lipase	
LRP6	NM_002336.1	low density lipoprotein receptor-related protein 6	LDL receptor related protein 6	
LRRK2	NM_198578.3	PARK8;parkinson disease (autosomal dominant) 8	leucine rich repeat kinase 2	
LTBP1	NM_000627.3		latent transforming growth factor beta binding protein 1	
LYN	NM_002350.3	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog	LYN proto-oncogene, Src family tyrosine kinase	

MAGI2	NM_012301.3		membrane associated guanylate kinase, WW and PDZ domain containing 2
MALTI1	NM_006785.2	MLT;mucosa associated lymphoid tissue lymphoma translocation gene 1	MALTI1 paracaspase
MAML3	NM_018717.4	TNRC3;trinucleotide repeat containing 3,mastermind-like 3 (Drosophila)	mastermind like transcriptional coactivator 3
MAP2K2	NM_030662.3	PRKMK2	mitogen-activated protein kinase kinase 2
MAP3K13	NM_004721.3		mitogen-activated protein kinase kinase kinase 13
MAP3K8	NM_001244134.1	COT,ESTF	mitogen-activated protein kinase kinase kinase 8
MAPK1	NM_138957.2	PRKM2,PRKM1	mitogen-activated protein kinase 1
MAPK10	NM_138981.2	PRKM10	mitogen-activated protein kinase 10
MAPK11	NM_002751.6	PRKM11	mitogen-activated protein kinase 11
MAPK13	NM_002754.3	PRKM13	mitogen-activated protein kinase 13
MAPK14	NM_001315.2	CSPB1,CSBP1,CSBP2	mitogen-activated protein kinase 14
MAPK3	NM_001040056.1	PRKM3	mitogen-activated protein kinase 3
MAPK8	NM_002750.2	PRKM8	mitogen-activated protein kinase 8
MAPK9	NM_139069.2	PRKM9	mitogen-activated protein kinase 9
MBD3	NM_001281453.2		methyl-CpG binding domain protein 3
MCL1	NM_021960.5	myeloid cell leukemia sequence 1 (BCL2-related),myeloid cell leukemia 1,MCL1, BCL2 family apoptosis regulator	MCL1 apoptosis regulator, BCL2 family member
MCM5	NM_006739.3	CDC46,minichromosome maintenance deficient (S. cerevisiae) 5 (cell division cycle 46),MCM5 minichromosome maintenance deficient 5, cell division cycle 46 (S. cerevisiae)	minichromosome maintenance complex component 5
MCM7	NM_182776.1	MCM2,minichromosome maintenance deficient (S. cerevisiae) 7,MCM7 minichromosome maintenance deficient 7 (S. cerevisiae)	minichromosome maintenance complex component 7
MIF	NM_002415.1	GLIF;macrophage migration inhibitory factor (glycosylation-inhibiting factor)	macrophage migration inhibitory factor
MMP14	NM_004995.2	matrix metalloproteinase 14 (membrane-inserted),matrix metalloproteinase 14 (membrane-inserted)	matrix metalloproteinase 14
MMP3	NM_002422.3	STMY1,STMY;matrix metalloproteinase 3 (stromelysin 1, progelatinase),stromelysin 1	matrix metalloproteinase 3
MMP9	NM_004994.2	CLG4B;matrix metalloproteinase 9 (gelatinase B, 92kDa gelatinase, 92kDa type IV collagenase)	matrix metalloproteinase 9
MRAS	NM_012219.4		muscle RAS oncogene homolog
MS4A1	NM_152866.2	CD20;membrane-spanning 4-domains, subfamily A, member 1	membrane spanning 4-domains A1
MS4A2	NM_000139.3	FCER1B,IgE,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_001243266.1	MS44A;membrane-spanning 4-domains, subfamily A, member 4,membrane-spanning 4-domains, subfamily A, member 4A	membrane spanning 4-domains A4A
MST1R	NM_002447.1	RON,PTK8,SEA;PTK8 protein tyrosine kinase 8,S13 erythroblastosis (avian) oncogene homolog,S13 avian erythroblastosis oncogene homolog	macrophage stimulating 1 receptor
MX1	NM_002462.2	myxovirus (influenza) resistance 1, homolog of murine (interferon-inducible protein p78),myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)	MX dynamin like GTPase 1
MX2	NM_002463.1	myxovirus (influenza) resistance 2, homolog of murine,myxovirus (influenza virus) resistance 2 (mouse)	MX dynamin like GTPase 2
MYSM1	NM_001085487.2	Myb-like, SWIRM and MPN domains 1	Myb like, SWIRM and MPN domains 1
NAA50	NM_025146.1	MAK3,NAT13;Mak3 homolog (S. cerevisiae),N-acetyltransferase 13,N-acetyltransferase 13 (GCN5-related),N(alpha)-acetyltransferase 50, NatE catalytic subunit	N-alpha-acetyltransferase 50, NatE catalytic subunit
NCF4	NM_000631.4	neutrophil cytosolic factor 4 (40kD),neutrophil cytosolic factor 4, 40kDa	neutrophil cytosolic factor 4
NCR1	NM_004829.5	LY94;lymphocyte antigen 94 (mouse) homolog (activating NK-receptor; NK-p46)	natural cytotoxicity triggering receptor 1
NCR2	NM_004828.3	LY95;lymphocyte antigen 95 (activating NK-receptor; NK-p44)	natural cytotoxicity triggering receptor 2
NCR3	NM_147130.2	LY117;lymphocyte antigen 117	natural cytotoxicity triggering receptor 3
NFAT5	NM_173214.1	nuclear factor of activated T-cells 5, tonicity-responsive,nuclear factor of activated T-cells 5	nuclear factor of activated T cells 5
NFATC1	NM_172389.1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1,nuclear factor of activated T-cells 1	nuclear factor of activated T cells 1
NFATC2	NM_012340.3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2,nuclear factor of activated T-cells 2	nuclear factor of activated T cells 2
NFATC3	NM_004555.2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3,nuclear factor of activated T-cells 3	nuclear factor of activated T cells 3
NFATC4	NM_001136022.2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4,nuclear factor of activated T-cells 4	nuclear factor of activated T cells 4
NFE2L2	NM_006164.3	nuclear factor (erythroid-derived 2)-like 2,nuclear factor, erythroid 2-like 2	nuclear factor, erythroid 2 like 2
NFIL3	NM_001289999.1	IL3BP1;interleukin-3 binding protein 1	nuclear factor, interleukin 3 regulated
NFKB1	NM_003998.2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1	nuclear factor kappa B subunit 1
NFKB2	NM_002502.2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)	nuclear factor kappa B subunit 2
NFKBIA	NM_020529.1	NFKB1;nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha	NFKB inhibitor alpha
NFKBIB	NM_002503.5	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, beta	NFKB inhibitor beta
NFKBIE	NM_004556.2	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, epsilon	NFKB inhibitor epsilon
NGK7	NM_005601.3	natural killer cell group 7 sequence	natural killer cell granule protein 7
NOS2	NM_000625.4	NOS2A,nitric oxide synthase 2A (inducible, hepatocytes),nitric oxide synthase 2, inducible	nitric oxide synthase 2
NOTCH2	NM_024408.3	Notch (Drosophila) homolog 2,Notch homolog 2 (Drosophila),notch 2	notch receptor 2
NPRL3	NM_001039476.2	C16orf35;chromosome 16 open reading frame 35,nitrogen permease regulator-like 3 (S. cerevisiae),NPR3-like, GATOR1 complex subunit	NPR3 like, GATOR1 complex subunit
NR4A1	NM_173157.1	HMR,GFRP1;nuclear receptor subfamily 4, group A, member 1	nuclear receptor subfamily 4 group A member 1
NRAS	NM_002524.4	neuroblastoma RAS viral (v-ras) oncogene homolog,neuroblastoma RAS viral oncogene homolog	NRAS proto-oncogene, GTPase
NRL	NM_006177.3		neural retina leucine zipper
NTSE	NM_002526.2	NTS;5' nucleotidase (CD73),5'-nucleotidase, ecto (CD73)	5'-nucleotidase ecto
NTF3	NM_002527.4		neurotrophin 3
NUP54	NM_001278603.1	nucleoporin 54kDa	nucleoporin 54
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
OAS2	NM_016817.2	2'-5'-oligoadenylate synthetase 2 (69-71 kD),2'-5'-oligoadenylate synthetase 2, 69/71kDa	2'-5'-oligoadenylate synthetase 2
OAS3	NM_006187.3	2'-5'-oligoadenylate synthetase 3 (100 kD),2'-5'-oligoadenylate synthetase 3, 100kDa	2'-5'-oligoadenylate synthetase 3
OAT	NM_000274.3		ornithine aminotransferase
ORC2	NM_006190.3	ORC2L;origin recognition complex, subunit 2 (yeast homolog)-like,origin recognition complex, subunit 2-like (yeast),origin recognition complex, subunit 2 homolog (yeast),origin recognition complex, subunit 2	origin recognition complex subunit 2
ORC4	NM_181742.1	ORC4L;origin recognition complex, subunit 4 (yeast homolog)-like,origin recognition complex, subunit 4-like (yeast),origin recognition complex, subunit 4-like (S. cerevisiae),origin recognition complex, subunit 4 homolog (S. cerevisiae),origin recognition complex, subunit 4	origin recognition complex subunit 4
OSM	NM_020530.4		oncostatin M
OSMR	NM_003999.2		oncostatin M receptor

PBX1	NM_002585.3	pre-B-cell leukemia transcription factor 1,pre-B-cell leukemia homeobox 1	PBX homeobox 1
PBX3	NM_006195.5	pre-B-cell leukemia transcription factor 3,pre-B-cell leukemia homeobox 3	PBX homeobox 3
PCK1	NM_002591.2	phosphoenolpyruvate carboxykinase 1 (soluble)	phosphoenolpyruvate carboxykinase 1
PCTP	NM_001102402.2		phosphatidylcholine transfer protein
PDCD1	NM_005018.2	SLEB2;systemic lupus erythematosus susceptibility 2	programmed cell death 1
PDCD1LG2	NM_025239.3		programmed cell death 1 ligand 2
PDGFD	NM_025208.4		platelet derived growth factor D
PDGFRA	NM_006206.3	platelet-derived growth factor receptor, alpha polypeptide	platelet derived growth factor receptor alpha
PDGFRB	NM_002609.3	PDGFR;platelet-derived growth factor receptor, beta polypeptide	platelet derived growth factor receptor beta
PDHB	NM_000925.3	pyruvate dehydrogenase (lipoamide) beta	pyruvate dehydrogenase E1 subunit beta
		pyruvate dehydrogenase kinase, isoenzyme 4,pyruvate dehydrogenase kinase, isozyme 4	
PK4	NM_002612.3		pyruvate dehydrogenase kinase 4
PECAM1	NM_000442.3	platelet/endothelial cell adhesion molecule 1	platelet and endothelial cell adhesion molecule 1
PGLYRP2	NM_052890.3		peptidoglycan recognition protein 2
PGLYRP3	NM_052891.1		peptidoglycan recognition protein 3
PHC3	NM_024947.3	polyhomeotic like 3 (Drosophila),polyhomeotic homolog 3 (Drosophila)	polyhomeotic homolog 3
PIAS1	NM_016166.1	DDXB1;DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1	protein inhibitor of activated STAT 1
PIAS2	NM_004671.3		protein inhibitor of activated STAT 2
PIK3AP1	NM_152309.2		phosphoinositide-3-kinase adaptor protein 1
		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		phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
PIK3CB	NM_006219.1	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
		phosphoinositide-3-kinase, catalytic, delta polypeptide,phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit delta	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
PIK3CD	NM_005026.3		phosphoinositide-3-kinase regulatory subunit 1 (alpha)
PIK3R1	NM_181504.2		phosphoinositide-3-kinase regulatory subunit 2 (beta)
PIK3R2	NM_005027.3		phosphoinositide-3-kinase regulatory subunit 3 (gamma)
PIK3R3	NM_001114172.1		
		IRID2,IHG2,RIEG,RIEG1,RGS;paired-like homeodomain transcription factor 2,paired-like homeodomain 2	paired like homeodomain 2
PITX2	NM_000325.5		protein kinase N2
PKN2	NM_006256.1	PRKCL2;protein kinase C-like 2	
		PLC1;phospholipase C, gamma 1 (formerly subtype 148),phospholipase C, gamma 1	phospholipase C gamma 1
PLCG1	NM_002660.2		phospholipase C gamma 2
PLCG2	NM_002661.2	phospholipase C, gamma 2 (phosphatidylinositol-specific)	phospholipid scramblase 1
PLSCR1	NM_021105.2		PML nuclear body scaffold
PML	NM_033238.2	promyelocytic leukemia	prepronocleptin
PNOC	NM_001284244.1		
		peroxisome proliferative activated receptor, gamma,peroxisome proliferator-activated receptor gamma	peroxisome proliferator activated receptor gamma
PPARG	NM_005037.5		
		PPARGC1;peroxisome proliferative activated receptor, gamma, coactivator 1,peroxisome proliferative activated receptor, gamma, coactivator 1, alpha,peroxisome proliferator-activated receptor gamma, coactivator 1 alpha	PPARG coactivator 1 alpha
PPARGC1A	NM_013261.3		
		protein phosphatase 1A (formerly 2C), magnesium-dependent, alpha isoform,protein phosphatase, Mg2+/Mn2+ dependent, 1A	protein phosphatase, Mg2+/Mn2+ dependent 1A
PPM1A	NM_021003.4		
		protein phosphatase 1F (PP2C domain containing),protein phosphatase, Mg2+/Mn2+ dependent, 1F	protein phosphatase, Mg2+/Mn2+ dependent 1F
PPM1F	NM_014634.3		
		protein phosphatase 1, catalytic subunit, beta isoform,protein phosphatase 1, catalytic subunit, beta isozyme	protein phosphatase 1 catalytic subunit beta
PPP1CB	NM_002709.2		
		protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform,protein phosphatase 2, catalytic subunit, alpha isozyme	protein phosphatase 2 catalytic subunit alpha
PPP2CA	NM_002715.2		
		protein phosphatase 2 (formerly 2A), catalytic subunit, beta isoform,protein phosphatase 2, catalytic subunit, beta isozyme	protein phosphatase 2 catalytic subunit beta
PPP2CB	NM_001009552.1		protein phosphatase 2 scaffold subunit A (PR 65), alpha isoform
PPP2R1A	NM_014225.3		protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform,protein phosphatase 2 (formerly 2A), regulatory subunit A (PR 65), beta isoform,protein phosphatase 2 regulatory subunit A, beta
PPP2R1B	NM_002716.4		protein phosphatase 2 regulatory subunit B (B56), alpha isoform
PPP2R5A	NM_001199756.1		protein phosphatase 2 regulatory subunit B (B56), beta isoform
PPP2R5B	NM_006244.3		protein phosphatase 2 regulatory subunit B (B56), gamma isoform
PPP2R5C	NM_002719.3		protein phosphatase 2 regulatory subunit B (B56), epsilon isoform
PPP2R5E	NM_001282179.1		CALN,CALNA;protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform (calcineurin A alpha),protein phosphatase 3 (formerly 2B), catalytic subunit, alpha isoform,protein phosphatase 3, catalytic subunit, alpha isozyme
PPP3CA	NM_000944.4		protein phosphatase 3 catalytic subunit alpha
		protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform (calcineurin A gamma),protein phosphatase 3 (formerly 2B), catalytic subunit, gamma isoform,protein phosphatase 3, catalytic subunit, gamma isozyme	protein phosphatase 3 catalytic subunit gamma
PPP3CC	NM_005605.4		
		protein phosphatase 3 (formerly 2B), regulatory subunit B (19kD), alpha isoform (calcineurin B, type I),protein phosphatase 3 (formerly 2B), regulatory subunit B, 19kDa, alpha isoform (calcineurin B, type I),protein phosphatase 3 (formerly 2B), regulatory subunit B, alpha isoform,protein phosphatase 3, regulatory subunit B, alpha	protein phosphatase 3 regulatory subunit B, alpha
PPP3R1	NM_000945.3		palmitoyl-protein thioesterase 1
PPT1	NM_000310.3		PR/SET domain 1
PRDM1	NM_182907.1	BLIMP1;PR domain containing 1, with ZNF domain,PR domain 1	PR/SET domain 16
PRDM16	NM_022114.3		perforin 1 (pore forming protein)
PRF1	NM_001083116.1		protein kinase AMP-activated catalytic subunit alpha 1
PRKAA1	NM_006251.5		protein kinase AMP-activated catalytic subunit alpha 2
PRKAA2	NM_006252.2	PRKAA;protein kinase, AMP-activated, alpha 2 catalytic subunit	protein kinase AMP-activated non-catalytic subunit gamma 3
PRKAG3	NM_017431.2	protein kinase, AMP-activated, gamma 3 non-catalytic subunit	protein kinase C beta
PRKCB	NM_212535.1	PRKCB2,PKCB,PRKCB1;protein kinase C, beta 1,protein kinase C, beta	protein kinase C zeta
PRKCD	NM_002744.4	protein kinase C, zeta	protein kinase, DNA-activated, catalytic subunit
PRKDC	NM_001081640.1	HYRC,HYRC1;protein kinase, DNA-activated, catalytic polypeptide	prolactin
PRL	NM_000948.3		
		proteasome (prosome, macropain) subunit, alpha type, 1,proteasome subunit alpha 1	proteasome 20S subunit alpha 1
PSMA1	NM_148976.2		
		proteasome (prosome, macropain) subunit, alpha type, 6,proteasome subunit alpha 6	proteasome 20S subunit alpha 6
PSMA6	NM_002791.2		
		MECL1;proteasome (prosome, macropain) subunit, beta type, 10,proteasome subunit beta 10	proteasome 20S subunit beta 10
PSMB10	NM_002801.3		
		LMP2;proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional protease 2),large multifunctional peptidase 2,proteasome (prosome, macropain) subunit, beta type, 9,proteasome subunit beta 9	proteasome 20S subunit beta 9
PSMB9	NM_002800.4		proteasome 265 subunit, ATPase 6
PSMC6	NM_002806.3	proteasome (prosome, macropain) 265 subunit, ATPase, 6	proteasome 265 subunit, non-ATPase 6
PSMD6	NM_001271779.1	proteasome (prosome, macropain) 265 subunit, non-ATPase, 6	proteasome activator subunit 2
PSME2	NM_002818.2	proteasome (prosome, macropain) activator subunit 2 (PA28 beta)	platelet activating factor receptor
PTAFR	NM_000952.3		prostaglandin E receptor 4
PTGER4	NM_000958.2	prostaglandin E receptor 4 (subtype EP4)	prostaglandin reductase 1
PTGR1	NM_001146109.1	LTB4DH;leukotriene B4 12-hydroxydehydrogenase	
		prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)	prostaglandin-endoperoxide synthase 2
PTGS2	NM_000963.1		protein tyrosine kinase 2 beta
PTK2B	NM_004103.3	FAK2;FAK2	
PTPN11	NM_002834.3	NS1; Noonan syndrome 1,protein tyrosine phosphatase, non-receptor type 11	protein tyrosine phosphatase non-receptor type 11
PTPN18	NM_014369.4	protein tyrosine phosphatase, non-receptor type 18 (brain-derived)	protein tyrosine phosphatase non-receptor type 18
PTPN2	NM_002828.3	PTPT	protein tyrosine phosphatase non-receptor type 2



PTPN22	NM_012411.5	PTPN8;protein tyrosine phosphatase, non-receptor type 8,protein tyrosine phosphatase, non-receptor type 22 (lymphoid)	protein tyrosine phosphatase non-receptor type 22	
PTPN6	NM_002831.5		protein tyrosine phosphatase non-receptor type 6	
PTPN7	NM_001199797.1		protein tyrosine phosphatase non-receptor type 7	
PTPRC	NM_080921.3	CD45	protein tyrosine phosphatase receptor type C	
PTPRJ	NM_001098503.1		protein tyrosine phosphatase receptor type J	
PTPRK	NM_001135648.1		protein tyrosine phosphatase receptor type K	
PTPRS	NM_002850.3		protein tyrosine phosphatase receptor type S	
PVRIG	NM_024070.3	poliovirus receptor related immunoglobulin domain containing	PVR related immunoglobulin domain containing	
PYCR1	NM_006907.2		pyrroline-5-carboxylate reductase 1	
PYCR2	NM_001271681.1	pyrroline-5-carboxylate reductase family member 2	pyrroline-5-carboxylate reductase 2	
RAC1	NM_006908.4	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)	Rac family small GTPase 1	
RAG1	NM_000448.2	recombination activating gene 1	recombination activating 1	
RARA	NM_001024809.3	retinoic acid receptor, alpha	retinoic acid receptor alpha	
RARB	NM_000965.5	retinoic acid receptor, beta	retinoic acid receptor beta	
RASGRF1	NM_001145648.1	GRF1	Ras protein specific guanine nucleotide releasing factor 1	
RASGRP1	NM_005739.3	RAS guanyl releasing protein 1 (calcium and DAG-regulated)	RAS guanyl releasing protein 1	
RASGRP3	NM_170672.2	RAS guanyl releasing protein 3 (calcium and DAG-regulated)	RAS guanyl releasing protein 3	
RBL2	NM_005611.3	retinoblastoma-like 2	RB transcriptional corepressor like 2	
RBX1	NM_014248.2		ring-box 1	
RELA	NM_021975.4	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	
RELN	NM_005045.2		reelin	
RGS16	NM_002928.2	regulator of G-protein signalling 16,regulator of G-protein signaling 16	regulator of G protein signaling 16	
RGS5	NM_002923.3	GOS8;regulator of G-protein signalling 2, 24kDa,regulator of G-protein signalling 2, 24kDa,regulator of G-protein signaling 2, 24kDa,regulator of G-protein signaling 2	regulator of G protein signaling 2	
RHEB	NM_005614.3	RHEB2;Ras homolog enriched in brain 2,Ras homolog enriched in brain	Ras homolog, mTORC1 binding	
RICTOR	NM_152756.3	RPTOR independent companion of MTOR, complex 2	RPTOR independent companion of MTOR complex 2	
RIMKLA	NM_173642.4	FAM80A;family with sequence similarity 80, member A	ribosomal modification protein rimK like family member A	
ROCK1	NM_005406.1		Rho associated coiled-coil containing protein kinase 1	
RORA	NM_002943.3	RAR-related orphan receptor A	RAR related orphan receptor A	
RORg	NM_005060.3	RAR-related orphan receptor C	RAR related orphan receptor C	RORC (NM_001001523) isoform specific
RORgt	NM_001001523.1		RAR related orphan receptor C t	RORC (NM_001001523) isoform specific
RRAGC	NM_001271851.1	Ras-related GTP binding C	Ras related GTP binding C	
RRAS	NM_006270.3	related RAS viral (r-ras) oncogene homolog	RAS related	
RSAD2	NM_080657.4		radical S-adenosyl methionine domain containing 2	
RXRG	NM_006917.3	retinoid X receptor, gamma	retinoid X receptor gamma	sub-maximal isoform coverage due to non-overlapping transcript variants
S100A12	NM_005621.1	S100 calcium-binding protein A12 (calgranulin C)	S100 calcium binding protein A12	
S1PR1	NM_001400.4	EDG1;endothelial differentiation, sphingolipid G-protein-coupled receptor, 1	sphingosine-1-phosphate receptor 1	
SCN2A	NM_021007.2	SCN2A1,SCN2A2;sodium channel, voltage-gated, type II, alpha 2 polypeptide,sodium channel, voltage-gated, type II, alpha 1 polypeptide,sodium channel, voltage-gated, type II, alpha subunit,sodium channel, voltage gated, type II alpha subunit	sodium voltage-gated channel alpha subunit 2	
SCP2	NM_001007100.2		sterol carrier protein 2	sub-maximal isoform coverage due to non-overlapping transcript variants
SEL1L	NM_005065.5	sel-1 suppressor of lin-12-like (C. elegans),SEL1L, ERAD E3 ligase adaptor subunit	SEL1L adaptor subunit of ERAD E3 ubiquitin ligase	
SELE	NM_000450.2	ELAM1,ELAM;endothelial adhesion molecule 1	selectin E	
SELL	NM_000655.4	LYAM1,LNHR;lymphocyte adhesion molecule 1	selectin L	
SEMA4D	NM_001142287.1	SEMAJ,C9orf164;chromosome 9 open reading frame 164,sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4D	semaphorin 4D	
SESN1	NM_014454.2		sestrin 1	
SESN2	NM_031459.4		sestrin 2	
SESN3	NM_001271594.1		sestrin 3	
SF3B1	NM_001005526.1	splicing factor 3b, subunit 1, 155kD,splicing factor 3b, subunit 1, 155kDa	splicing factor 3b subunit 1	
SFN	NM_006142.3		stratifin	
SFRP1	NM_003012.4		secreted frizzled related protein 1	
SFTP1	NM_005411.5	SFTP1;surfactant, pulmonary-associated protein A1	surfactant protein A1	SFTP2 (NM_001098668;NM_001320813;NM_001320814)
SH2D1A	NM_002351.4	IMD5,LYP;lymphoproliferative syndrome,SH2 domain protein 1A	SH2 domain containing 1A	
SHC4	NM_203349.2	SHC (Src homology 2 domain containing) family, member 4	SHC adaptor protein 4	
SIGLEC1	NM_023068.3	SN;sialoadhesin,sialic acid binding Ig-like lectin 1, sialoadhesin	sialic acid binding Ig like lectin 1	
SIGLEC5	NM_003830.3	CD33L2;sialic acid binding Ig-like lectin 5	sialic acid binding Ig like lectin 5	
SIGLEC6	NM_001177548.1	CD33L,CD33L1;sialic acid binding Ig-like lectin 6	sialic acid binding Ig like lectin 6	
SLAMF6	NM_001184714.1		SLAM family member 6	
SLC2A12	NM_145176.2	solute carrier family 2 (facilitated glucose transporter), member 12	solute carrier family 2 member 12	
SLC2A3/14	NM_006931.2	SLC2A3P3;solute carrier family 2 (facilitated glucose transporter), member 3	solute carrier family 2 member 3/14	
SLC2A6	NM_001145099.1	pseudogene 3,solute carrier family 2 (facilitated glucose transporter), member 14	solute carrier family 2 member 6	
SLC7A5	NM_003486.5	solute carrier family 2 (facilitated glucose transporter), member 6	solute carrier family 2 member 6	
SLC7A5	NM_003486.5	solute carrier family 7 (amino acid transporter light chain, L system), member 5	solute carrier family 7 member 5	
SLC8A1	NM_021097.1	NCX1;solute carrier family 8 (sodium/calcium exchanger), member 1	solute carrier family 8 member A1	
SMAD2	NM_001003652.3	MADH2;MAD, mothers against decapentaplegic homolog 2 (Drosophila),SMAD, mothers against DPP homolog 2 (Drosophila)	SMAD family member 2	
SMAD3	NM_001145104.1	MADH3;MAD, mothers against decapentaplegic homolog 3 (Drosophila),SMAD, mothers against DPP homolog 3 (Drosophila)	SMAD family member 3	
SMAD4	NM_005359.3	MADH4;MAD, mothers against decapentaplegic homolog 4 (Drosophila),SMAD, mothers against DPP homolog 4 (Drosophila)	SMAD family member 4	
SMAD9	NM_001127217.2	MADH6,MADH9;MAD, mothers against decapentaplegic homolog 9 (Drosophila),SMAD, mothers against DPP homolog 9 (Drosophila)	SMAD family member 9	
SMARCA4	NM_001128849.1	SNF2L4	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4	
SMC3	NM_005445.3	CSPG6;chondroitin sulfate proteoglycan 6 (bamacan)	structural maintenance of chromosomes 3	
SNAI2	NM_003068.3	SLUG;slug homolog, zinc finger protein (chicken),snail homolog 2 (Drosophila),snail family zinc finger 2	snail family transcriptional repressor 2	
SOC51	NM_003745.1		suppressor of cytokine signaling 1	
SOC52	NM_003877.3		suppressor of cytokine signaling 2	
SOC53	NM_003955.4		suppressor of cytokine signaling 3	
SOS1	NM_005633.2	GINGF;gingival fibromatosis, hereditary, 1,son of sevenless homolog 1 (Drosophila)	SOS Ras/Rac guanine nucleotide exchange factor 1	
SP100	NM_003113.3	nuclear antigen Sp100	SP100 nuclear antigen	
SPAG9	NM_001130528.2		sperm associated antigen 9	
SPIB	NM_003121.4	Spi-B transcription factor (Spi-1/PU.1 related)	Spi-B transcription factor	
ST3GAL6	NM_001271148.1	SIAT10;sialyltransferase 10 (alpha-2,3-sialyltransferase VI)	ST3 beta-galactoside alpha-2,3-sialyltransferase 6	
STAG2	NM_001042749.1		stromal antigen 2	

STAT1	NM_007315.3	signal transducer and activator of transcription 1, 91kD,signal transducer and activator of transcription 1, 91kDa	signal transducer and activator of transcription 1	
STAT3	NM_003150.3	signal transducer and activator of transcription 3 (acute-phase response factor)	signal transducer and activator of transcription 3	
STAT4	NM_003151.2		signal transducer and activator of transcription 4	
STAT5A	NM_003152.3	STAT5	signal transducer and activator of transcription 5A	
STAT5B	NM_012448.3		signal transducer and activator of transcription 5B	
STC1	NM_003155.2	STC	stanniocalcin 1	
STC2	NM_003714.2		stanniocalcin 2	
STIM1	NM_003156.4		stromal interaction molecule 1	
SUMO1	NM_003352.4	UBL1;ubiquitin-like 1 (sentrin),SMT3 suppressor of mif two 3 homolog 1 (yeast),SMT3 suppressor of mif two 3 homolog 1 (S. cerevisiae)	small ubiquitin like modifier 1	
SYK	NM_003177.5	spleen tyrosine kinase	spleen associated tyrosine kinase	
TAB2	NM_015093.3	MAP3K7IP2;mitogen-activated protein kinase kinase kinase 7 interacting protein 2,TGF-beta activated kinase 1/MAP3K7 binding protein 2	TGF-beta activated kinase 1 (MAP3K7) binding protein 2	sub-maximal isoform coverage due to non-overlapping transcript variants
TAF6L	NM_006473.3	TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65 kD,TAF6-like RNA polymerase II, p300/CBP-associated factor (PCAF)-associated factor, 65kDa	TATA-box binding protein associated factor 6 like	
TAPBP	NM_003190.4	TAP binding protein (tapasin)	TAP binding protein	
TAX1BP1	NM_001206901.1	Tax1 (human T-cell leukemia virus type I) binding protein 1	Tax1 binding protein 1	
TBK1	NM_013254.2	TANK-binding kinase 1	TANK binding kinase 1	
TBL1XR1	NM_024665.4	transducin (beta)-like 1X-linked receptor 1,transducin beta like 1 X-linked receptor 1	TBL1X receptor 1	
TBX21	NM_013351.1	T-box 21	T-box transcription factor 21	
TCF7	NM_201633.2	transcription factor 7 (T-cell specific, HMG-box)	transcription factor 7	
TCL1A	NM_001098725.1	T cell leukemia/lymphoma 1A	TCL1 family AKT coactivator A	
TDRD1	NM_198795.1		tudor domain containing 1	
TELO2	NM_016111.3	TEL2, telomere maintenance 2, homolog (S. cerevisiae)	telomere maintenance 2	
TERT	NM_198253.2		telomerase reverse transcriptase	
TGFB1	NM_000660.3	TGFB,DPD1;transforming growth factor, beta 1	transforming growth factor beta 1	
TGFB2	NM_003238.2	transforming growth factor, beta 2	transforming growth factor beta 2	
TICAM1	NM_014261.1	toll-like receptor adaptor molecule 1	toll like receptor adaptor molecule 1	
TIGIT	NM_173799.2	VSIG9,VSTM3;VSIG9, VSTM3	T cell immunoreceptor with lg and ITIM domains	
TIMP1	NM_003254.2	TIMP,CLGI;tissue inhibitor of metalloproteinase 1 (erythroid potentiating activity, collagenase inhibitor)	TIMP metalloproteinase inhibitor 1	
TLE4	NM_007005.3	transducin-like enhancer of split 4 (E[sp1] homolog, Drosophila),transducin like enhancer of split 4	TLE family member 4, transcriptional corepressor	
TLR1	NM_003263.3	toll-like receptor 1	toll like receptor 1	
TLR10	NM_030956.2	toll-like receptor 10	toll like receptor 10	
TLR2	NM_003264.3	toll-like receptor 2	toll like receptor 2	
TLR7	NM_016562.3	toll-like receptor 7	toll like receptor 7	
TMED2	NM_006815.3	transmembrane emp24 domain trafficking protein 2	transmembrane p24 trafficking protein 2	
TNF	NM_000594.2	TNFA;tumor necrosis factor (TNF superfamily, member 2)	tumor necrosis factor	
TNFAIP3	NM_006290.2	tumor necrosis factor, alpha-induced protein 3	TNF alpha induced protein 3	
TNFRSF10A	NM_003844.2	tumor necrosis factor receptor superfamily, member 10a	TNF receptor superfamily member 10a	
TNFRSF14	NM_003820.3	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator),tumor necrosis factor receptor superfamily, member 14	TNF receptor superfamily member 14	
TNFRSF17	NM_001192.2	BCMA;tumor necrosis factor receptor superfamily, member 17	TNF receptor superfamily member 17	
TNFRSF18	NM_148901.1	tumor necrosis factor receptor superfamily, member 18	TNF receptor superfamily member 18	
TNFRSF1A	NM_001065.2	TNFR1;tumor necrosis factor receptor superfamily, member 1A	TNF receptor superfamily member 1A	
TNFRSF1B	NM_001066.2	TNFR2;tumor necrosis factor receptor superfamily, member 1B	TNF receptor superfamily member 1B	
TNFRSF4	NM_003327.3	TXGP1L;tumor necrosis factor receptor superfamily, member 4	TNF receptor superfamily member 4	
TNFRSF9	NM_001561.4	ILA;tumor necrosis factor receptor superfamily, member 9	TNF receptor superfamily member 9	
TNFSF10	NM_003810.2	tumor necrosis factor (ligand) superfamily, member 10	TNF superfamily member 10	
TNFSF18	NM_005092.2	tumor necrosis factor (ligand) superfamily, member 18	TNF superfamily member 18	
TNFSF4	NM_003326.2	TXGP1,tax- transcriptionally activated glycoprotein 1, 34kD,tumor necrosis factor (ligand) superfamily, member 4	TNF superfamily member 4	
TNFSF9	NM_003811.3	tumor necrosis factor (ligand) superfamily, member 9	TNF superfamily member 9	
TOX	NM_014729.2		thymocyte selection associated high mobility group box	
TOX2	NM_001098798.1	C2orf100;chromosome 20 open reading frame 100	TOX high mobility group box family member 2	
TOX3	NM_001080430.4	TNRC9;trinucleotide repeat containing 9	TOX high mobility group box family member 3	
TOX4	NM_014828.2	C14orf92,KIAA0737;chromosome 14 open reading frame 92,KIAA0737	TOX high mobility group box family member 4	
TPP2	NM_003291.2	tripeptidyl peptidase II	tripeptidyl peptidase 2	
TPSAB1/B2	NM_003294.3		tryptase alpha/beta 1/2	
TRAC	ENST00000611116.1		T cell receptor alpha constant	
TRAF2	NM_021138.3		TNF receptor associated factor 2	
TRAT1	NM_016388.3	TCRIM;TCRIM	T cell receptor associated transmembrane adaptor 1	
TRBC1/2	ENST00000466254.1		T cell receptor beta constant 1/2	
TRDC	ENST00000390477.1		T cell receptor delta constant	
TRDV1	ENST00000390452.1		T cell receptor delta variable 1	
TRDV2	ENST00000390469.1		T cell receptor delta variable 2	
TRDV3	ENST00000535880.1		T cell receptor delta variable 3	
TREM2	NM_018965.3	triggering receptor expressed on myeloid cells 2a	triggering receptor expressed on myeloid cells 2	
TRGC1	ENST00000443402.1	TCRG1;TCRG1	T cell receptor gamma constant 1	
TRGC2	ENST00000436911.1	TCRG2;TCRG2	T cell receptor gamma constant 2	
TRGV2	ENST00000426402.1	TCRGV2;TCRGV2	T cell receptor gamma variable 2	
TRGV3/5	ENST00000390346.1	TCRGV5;TCRGV5	T cell receptor gamma variable 3/5	
TRGV4	ENST00000390345.1	TCRGV4;TCRGV4	T cell receptor gamma variable 4	
TRGV8	ENST00000390343.1	TCRGV8;TCRGV8	T cell receptor gamma variable 8	
TRGV9	ENST0000044775.1	TCRGV9;TCRGV9	T cell receptor gamma variable 9	
TRIM2	NM_001302694.1	tripartite motif-containing 2	tripartite motif containing 2	
TRIM29	NM_001330382.1	tripartite motif-containing 29	tripartite motif containing 29	
TRIM33	NM_015906.3	tripartite motif-containing 33	tripartite motif containing 33	
TRIM35	NM_171982.3	tripartite motif-containing 35	tripartite motif containing 35	
TRIM36	NM_001017397.1	tripartite motif-containing 36	tripartite motif containing 36	sub-maximal isoform coverage due to non-overlapping transcript variants
TRIM46	NM_025058.4	tripartite motif-containing 46	tripartite motif containing 46	
TRIM48	NM_024114.3	tripartite motif-containing 48	tripartite motif containing 48	
TRIM9	NM_015163.5	tripartite motif-containing 9	tripartite motif containing 9	
TRPC1	NM_003304.4	transient receptor potential cation channel, subfamily C, member 1	transient receptor potential cation channel subfamily C member 1	
TRPC6	NM_004621.5	FGS2;focal segmental glomerulosclerosis 2,transient receptor potential cation channel, subfamily C, member 6	transient receptor potential cation channel subfamily C member 6	
TRPM7	NM_017672.4	transient receptor potential cation channel, subfamily M, member 7	transient receptor potential cation channel subfamily M member 7	
TSLP	NM_033035.4		thymic stromal lymphopoietin	
TTK	NM_003318.3		TTK protein kinase	
TUSC2	NM_007275.2	PDAP2;PDGFA associated protein 2,tumor suppressor candidate 2	tumor suppressor 2, mitochondrial calcium regulator	

TWIST1	NM_000474.3	ACS3,BPES3,TWIST,CRS;blepharophimosis, epicanthus inversus and ptosis	twist family bHLH transcription factor 1
TYK2	NM_003331.4	3,aroccephalosyndactyly 3,twist homolog 1 (Drosophila),twist basic helix-loop-helix transcription factor 1,craniosynostosis	tyrosine kinase 2
TYROBP	NM_003332.3	PLOSL;polycystic lipomembranous osteodysplasia with sclerosing leukoencephalopathy,TYRO protein tyrosine kinase binding protein	transmembrane immune signaling adaptor TYROBP
UBE2D1	NM_003338.4	SFT;stimulator of Fe transport,ubiquitin-conjugating enzyme E2D 1 (UBC4/5 homolog, yeast),ubiquitin-conjugating enzyme E2D 1	ubiquitin conjugating enzyme E2 D1
UBE2I	NM_194260.2	ubiquitin-conjugating enzyme E2I (homologous to yeast UBC9),ubiquitin-conjugating enzyme E2I (UBC9 homolog, yeast),ubiquitin-conjugating enzyme E2I	ubiquitin conjugating enzyme E2 I
UCP1	NM_021833.4	UCP;uncoupling protein 1 (mitochondrial, proton carrier)	uncoupling protein 1
UHRF1	NM_001290050.1		ubiquitin like with PHD and ring finger domains 1
ULBP2	NM_025217.3		UL16 binding protein 2
ULBP3	NM_024518.1		UL16 binding protein 3
USP15	NM_001252078.1	ubiquitin specific protease 15	ubiquitin specific peptidase 15
VAV2	NM_001134398.1	vav 2 oncogene,vav 2 guanine nucleotide exchange factor	vav guanine nucleotide exchange factor 2
VAV3	NM_001079874.1	vav 3 oncogene,vav 3 guanine nucleotide exchange factor	vav guanine nucleotide exchange factor 3
VCAM1	NM_001199834.1		vascular cell adhesion molecule 1
VDAC1	NM_003374.3		voltage dependent anion channel 1
VEGFA	NM_001025366.1	VEGF;vascular endothelial growth factor	vascular endothelial growth factor A
VSIR	NM_022153.1	C10orf54;chromosome 10 open reading frame 54	V-set immunoregulatory receptor
VTCN1	NM_001253849.1		V-set domain containing T cell activation inhibitor 1
WNT11	NM_004626.2	wingless-type MMTV integration site family, member 11	Wnt family member 11
WNT2	NM_003391.2	INT11;wingless-type MMTV integration site family member 2	Wnt family member 2
WNT3	NM_030753.4	INT4;wingless-type MMTV integration site family, member 3	Wnt family member 3
WNT3A	NM_033131.3	wingless-type MMTV integration site family, member 3A	Wnt family member 3A
WNT4	NM_030761.5	wingless-type MMTV integration site family, member 4	Wnt family member 4
WNT6	NM_006522.3	wingless-type MMTV integration site family, member 6	Wnt family member 6
XAF1	NM_199139.2		XIAP associated factor 1
XCL1/2	NM_002995.2	SCYC2;small inducible cytokine subfamily C, member 2,chemokine (C motif) ligand 2	X-C motif chemokine ligand 1/2
XIAP	NM_001167.3	API3,BIRC4;baculoviral IAP repeat-containing 4,X-linked inhibitor of apoptosis, E3 ubiquitin protein ligase	X-linked inhibitor of apoptosis
YES1	NM_005433.3	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1	YES proto-oncogene 1, Src family tyrosine kinase
YWHAZ	NM_001135699.1	YWHAZ;tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, delta polypeptide,tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein zeta
YY1	NM_003403.3		YY1 transcription factor
ZAP70	NM_001079.3	SRK,SRK	zeta chain of T cell receptor associated protein kinase 70
ZBTB16	NM_006006.4	ZNF145;zinc finger protein 145 (Kruppel-like, expressed in promyelocytic leukemia)	zinc finger and BTB domain containing 16
ZFP36L2	NM_006887.4	BRF2;butyrate response factor 2 (EGF-response factor 2),zinc finger protein 36, C3H type-like 2	ZFP36 ring finger protein like 2
ZNF683	NM_001114759.1		zinc finger protein 683
<b>Internal Reference Genes</b>			
ABCF1	NM_001090.2	ABC50;ATP-binding cassette, sub-family F (GCN20), member 1;EST123147	ATP binding cassette subfamily F member 1
G6PD	NM_000402.4	G6PD1	glucose-6-phosphate dehydrogenase
NRDE2	NM_017970.3	C14orf102;chromosome 14 open reading frame 102;FLJ14051	NRDE-2, necessary for RNA interference, domain containing
OAZ1	NM_004152.2	OAZ,AZI,MGC138338,AZ1	ornithine decarboxylase antizyme 1
PGK1	NM_000291.2		phosphoglycerate kinase 1
POLR2A	NM_000937.2	POLR2;polymerase (RNA) II (DNA directed) polypeptide A, 220kDa;POLRA,RPB1	RNA polymerase II subunit A
PPIA	NM_021130.4	CYPA	peptidylprolyl isomerase A
SDHA	NM_004168.3	SDH2;succinate dehydrogenase complex, subunit A, flavoprotein (Fp),succinate dehydrogenase complex subunit A, flavoprotein (Fp);FP,SDHF	succinate dehydrogenase complex flavoprotein subunit A
STK11IP	NM_052902.2	LIP1,KIAA1898,LKB1P,STK11IP1	serine/threonine kinase 11 interacting protein
TBC1D10B	NM_015527.3	TBC1 domain family, member 10B;DKFZP434P1750,Rab27A-GAPbeta,FLJ13130,EPI64B	TBC1 domain family member 10B
TBP	NM_001172085.1	GTF2D1,SCA17,TFIID	TATA-box binding protein
UBB	NM_018955.3	MGC8385,FLJ25987	ubiquitin B

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