

nCounter® Human PanCancer Immune Profiling Panel - Gene and Probe Details

Gene Name	Accession	Alias or Previous Symbol	Official Full Name	Also Targets
AZM	NM_00014.4	FWP007, S863-7, CPAMD5	alpha-2-macroglobulin	
ABC81	NM_000927.3	PGY1, MDR1, CLCS, P-gp, CD243, GP170, ABC20	ATP-binding cassette, sub-family B (MDR/TAP), member 1	
ABL1	NM_005157.3	ABL, JTK7, c-ABL, p150	c-abl oncogene 1, non-receptor tyrosine kinase	
ADA	NM_000022.2		adenosine deaminase	
ADORA2A	NM_000675.3	ADORA2, RDC8	adenosine A2a receptor	
AICDA	NM_020661.1	HIGM2, CD2A, ARP2, AID	activation-induced cytidine deaminase	
AIRE	NM_000383.2	APECED, PGAL1, APS1	autoimmune regulator	
AKT3	NM_181690.1	PKBG, RAC-gamma, PRKBG	v-akt murine thymoma viral oncogene homolog 3 (protein kinase B, gamma)	
ALCAM	NM_001627.3	CD166, MEMD	activated leukocyte cell adhesion molecule	
AMBP	NM_001633.3	ITI, ITIL, UTI, HCP, EDC1, H30, IATIL, ITILC	alpha-1-microglobulin/bikunin precursor	
AMICA1	NM_153206.2	Gm638, AMICA	adhesion molecule, interacts with CXADR antigen 1	
ANP32B	NM_006401.2	SP29, PHAPI2, APRIL	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B	
ANXA1	NM_000700.1	ANX1, LPC1	annexin A1	
APOE	NM_000411.2	AD2	apolipoprotein E	
APP	NM_000484.3	AD1	amyloid beta (A4) precursor protein	
ARG1	NM_000045.2		arginase, liver	
ARG2	NM_001172.3		arginase, type II	
ATF1	NM_005171.2	TREB36	activating transcription factor 1	
ATF2	NM_001256090.1	CREB2, TREB7, CRE-BP1, HB16	activating transcription factor 2	
ATG10	NM_001131028.1	APG10L, DKFZP586I0418, FLJ13954	autophagy related 10	
ATG12	NM_004707.2	APG12L, APG12	autophagy related 12	AP351 (NM_001318090;NM_001318094;NM_001284;NM_001002924;NM_001318091;NM_001318093)
ATG16L1	NM_198890.2	APG16L, ATG16L, WDR30, FLJ10035, ATG16A	autophagy related 16-like 1 (S. cerevisiae)	
ATG5	NM_004849.2	APG5L, ASP, APG5, hAPG5	autophagy related 5	
ATG7	NM_001136031.2	APG7L, GSA7, DKFZ943N0735	autophagy related 7	
ATM	NM_000051.3	ATA, ATDC, ATC, ATD, TEL1, TELO1	ataxia telangiectasia mutated	
AXL	NM_021913.2	UFO, JTK11	AXL receptor tyrosine kinase	
BAGE	NM_001187.1	CT2.1, BAGE1	B melanoma antigen	
BATF	NM_006399.3	B-ATF, SFA-2, BATF1	basic leucine zipper transcription factor, ATF-like	
BAX	NM_138761.3	BCL2L4	BCL2-associated X protein	
BCL10	NM_003921.2	CARMEN, CIPER, me10, c-E10, CLAP	B-cell CLL/lymphoma 10	
BCL2	NM_000657.2	Bcl-2, PPP1R50	B-cell CLL/lymphoma 2	
BCL2L1	NM_001191.2	BCLX, BCL2L, Bcl-X, bcl-xL, bcl-xS, PPP1R52	BCL2-like 1	
BCL6	NM_001706.2	ZNF51, ZBTB27, LAZ3, BCL5, BCL6A	B-cell CLL/lymphoma 6	
BID	NM_001196.2		BH3 interacting domain death agonist	
BIRC5	NM_001168.2	API4, EPR-1, survivin	baculoviral IAP repeat containing 5	
BLK	NM_001715.2	MGC10442	B lymphoid tyrosine kinase	
BLNK	NM_013314.2	SLP65, Ly57, SLP-65, BLNK-s, BASH, bca	B-cell linker	
BM11	NM_005180.5	PCGF4, RNF51	BM11 polycomb ring finger oncogene	
BST1	NM_004334.2	CD157	bone marrow stromal cell antigen 1	
BST2	NM_004335.2	CD317, tetherin	bone marrow stromal cell antigen 2	
BTk	NM_000611.1	AGMX1, IMD1, ATK, XLA, PSCTK1	Brunton agammaglobulinemia tyrosine kinase	
BTLA	NM_181780.2	BTLA1, CD272	B and T lymphocyte associated	
CIQA	NM_015991.2		complement component 1, q subcomponent, A chain	
CIQB	NM_000491.3		complement component 1, q subcomponent, B chain	
CIQBP	NM_001212.3	HABP1, gCIQ-R, gCIqR, p32, SF2p32	complement component 1, q subcomponent binding protein	
C1R	NM_001733.4		complement component 1, r subcomponent	
C1S	NM_001734.2		complement component 1, s subcomponent	
C2	NM_000063.3		complement component 2	
C3	NM_000064.2	CPAMD1, ARMD9, C3a, C3b	complement component 3	
C3AR1	NM_004054.2	C3AR, AZ3B	complement component 3a receptor 1	
C4B	NM_001002029.3	CPAMD3, C4F, C04, C4B1, C4B3, CH	complement component 4B (Chido blood group)	C4A (NM_007293)
C4BPA	NM_000715.3	C4BP	complement component 4 binding protein, alpha	
C5	NM_001735.2	CPAMD4, C5a, C5b	complement component 5	
C6	NM_000065.2		complement component 6	
C7	NM_000587.2		complement component 7	
C8A	NM_000562.2		complement component 8, alpha polypeptide	
C8B	NM_000066.2		complement component 8, beta polypeptide	
C8G	NM_000606.2		complement component 8, gamma polypeptide	
C9	NM_001737.3		complement component 9	
CAMP	NM_004345.3	CAP18, FALL39, FALL-39, LL37	cathelicidin antimicrobial peptide	
CARD11	NM_032415.2	CARMA1, BIMP3	caspace recruitment domain family, member 11	
CARD9	NM_052813.4		caspace recruitment domain family, member 9	
CASP1	NM_001223.3	IL1BC, ICE	caspace 1, apoptosis-related cysteine peptidase	
CASP10	NM_032977.3	MCH4	caspace 10, apoptosis-related cysteine peptidase	
CASP3	NM_032991.2	CPP32, CPP32B, Yama, apopain	caspace 3, apoptosis-related cysteine peptidase	
CASP8	NM_001228.4	MCH5, MACH, FLICE, Casp-8	caspace 8, apoptosis-related cysteine peptidase	
CCL1	NM_002981.1	SCYA1, I-309, TCA3, P500, SIsE	chemokine (C-C motif) ligand 1	
CCL11	NM_002986.2	SCYA11, eotaxin, MGC22554	chemokine (C-C motif) ligand 11	
CCL13	NM_005408.2	SCYA13, MCP-4, NCC-1, SCYL1, Ckb10, MGC17134	chemokine (C-C motif) ligand 13	
CCL14	NM_032963.3	SCYA14, HCC-1, HCC-3, NCC-2, SCYL2, Ckb1, MCIF	chemokine (C-C motif) ligand 14	
CCL15	NM_032965.3	SCYA15, HCC-2, NCC-3, SCYL3, MIP-5, Lkn-1, MIP-1d, HMRP-2B	chemokine (C-C motif) ligand 15	
CCL16	NM_004590.2	SCYA16, NCC-4, SCYL4, LEC, HCC-4, LMC, LCC-1, Ckb12, Mtn-1	chemokine (C-C motif) ligand 16	
CCL17	NM_002987.2	SCYA17, TARC, ABCD-2	chemokine (C-C motif) ligand 17	
CCL18	NM_002988.2	SCYA18, DC-CK1, PARC, AMAC-1, DCCK1, MIP-4, Ckb7	chemokine (C-C motif) ligand 18 (pulmonary and activation-regulated)	
CCL19	NM_006274.2	SCYA19, ELC, MIP-3b, exodus-3, Ckb11	chemokine (C-C motif) ligand 19	
CCL2	NM_002982.3	SCYA2, MCP1, MCP-1, MCAF, SMC-CF, GDCF-2, HC11, MGC9434	chemokine (C-C motif) ligand 2	
CCL20	NM_004591.1	SCYA20, LARC, MIP-3a, exodus-1, ST38, Ckb4	chemokine (C-C motif) ligand 20	
CCL21	NM_002989.2	SCYA21, SLC, exodus-2, TCA4, Ckb9, SKline, ECL	chemokine (C-C motif) ligand 21	
CCL22	NM_002990.3	SCYA22, MDC, STCP-1, ABCD-1, DC/B-CK, A-152E5.1, MGC34554	chemokine (C-C motif) ligand 22	
CCL23	NM_145898.1	SCYA23, Ckb-8, MPIF-1, MIP-3, Ckb8	chemokine (C-C motif) ligand 23	
CCL24	NM_002991.2	SCYA24, Ckb-6, MPIF-2, eotaxin-2, MPIF2	chemokine (C-C motif) ligand 24	
CCL25	NM_005624.2	SCYA25, TECK, Ckb15	chemokine (C-C motif) ligand 25	
CCL26	NM_006072.4	SCYA26, MIP-4alpha, eotaxin-3, IMAC, MIP-4a, TSC-1	chemokine (C-C motif) ligand 26	
CCL27	NM_006664.2	SCYA27, ALP, ILc, CTACK, skinkine, ESkin, PESKY, CTAK	chemokine (C-C motif) ligand 27	
CCL28	NM_148672.2	SCYA28, MEC, CCK1	chemokine (C-C motif) ligand 28	
CCL3	NM_002983.2	SCYA3, G0S19-1, LD78ALPHA, MIP-1-alpha	chemokine (C-C motif) ligand 3	
CCL3L1	NM_021006.4	D1751718, SCYA3L, SCYA3L1, G0S19-2, LD78BETA	chemokine (C-C motif) ligand 3-like 1	CCL3L3 (NM_001001437); CCL3 (NM_002983) CCL4L1 (NM_207007); CCL4L2 (NM_001291470;NM_001291473;NM_001291472;NM_001291475;NM_001291476;NM_001291468;NM_001291469;NM_001291474)
CCL4	NM_002984.2	LAG1, SCYA4, MIP-1-beta, Act-2, AT744.1	chemokine (C-C motif) ligand 4	
CCL5	NM_002985.2	D175136E, SCYA5, RANTES, SIsd, TCP228, MGC17164	chemokine (C-C motif) ligand 5	
CCL7	NM_006273.2	SCYA6, SCYA7, MCP-3, NC28, FIC, MARC, MCP3	chemokine (C-C motif) ligand 7	
CCL8	NM_005623.2	SCYA8, MCP-2, HC14	chemokine (C-C motif) ligand 8	
CND3	NM_001760.2		cyclin D3	
CCR1	NM_001295.2	SCYAR1, CMKBR1, CKR-1, MIP1aR, CD191	chemokine (C-C motif) receptor 1	
CCR2	NM_001123041.2	CMKBR2, CC-CKR-2, CKR2, MCP-1-R, CD192, FLJ78302	chemokine (C-C motif) receptor 2	
CCR3	NM_001837.2	CMKBR3, CC-CKR-3, CKR3, CD193	chemokine (C-C motif) receptor 3	
CCR4	NM_005508.4	CC-CKR-4, CMKBR4, CKR4, i5-5, ChemR13, CD194	chemokine (C-C motif) receptor 4	
CCR5	NM_000579.1	CMKBR5, CKR-5, CC-CKR-5, CKR5, CD195, IDDM22	chemokine (C-C motif) receptor 5 (gene/pseudogene)	
CCR6	NM_031409.2	STR122, CKR-13, GPR-CV4, CMKBR6, GPR29, DRY-6, DCR2, BN-1, CD196	chemokine (C-C motif) receptor 6	
CCR7	NM_001838.2	CMKBR7, EBH1, BLR2, CDw197, CD197	chemokine (C-C motif) receptor 7	
CCR9	NM_031200.1	GPR28, GPR-9-6, CDw199	chemokine (C-C motif) receptor 9	
CCRL2	NM_003965.4	HCR, CRAM-B, CKRX, CRAM-A, ACKR5	chemokine (C-C motif) receptor-like 2	
CD14	NM_000591.2		CD14 molecule	
CD160	NM_007053.2	BY55, NK1, NK28	CD160 molecule	
CD163	NM_004244.4	M130, MM130	CD163 molecule	
CD164	NM_006016.4	MUC-24, MGC-24	CD164 molecule, sialomucin	
CD180	NM_005582.2	LY64, RP105, LY78	CD180 molecule	

CD19	NM_001770.4		CD19 molecule
CD1A	NM_001763.2	CD1	CD1a molecule
CD1B	NM_001764.2	CD1	CD1b molecule
CD1C	NM_001765.2	CD1	CD1c molecule
CD1D	NM_001766.3		CD1d molecule
CD1E	NM_001042583.1		CD1e molecule
CD2	NM_001767.3	SRBC	CD2 molecule
CD200	NM_005944.5	MOX1, MOX2, MRC, OX-2	CD200 molecule
CD207	NM_015717.2	Langerin, CLEC4K	CD207 molecule, langerin
CD209	NM_021155.2	DC-SIGN, CDSIGN, DC-SIGN1, CLEC4L	CD209 molecule
CD22	NM_001771.2	SIGLEC-2, SIGLEC2	CD22 molecule
CD24	NM_013230.2	CD24A	CD24 molecule
CD244	NM_016382.2	2B4, NAIL, NKR2B4, Nmrk, SLAMF4	CD244 molecule, natural killer cell receptor 2B4
CD247	NM_198053.1	CD32, CD3H, CD3Q	CD247 molecule
CD27	NM_001242.4	TNFRSF7, S152, Tp55	CD27 molecule
CD274	NM_014143.3	PDCD1LG1, B7-H, B7H1, PD-L1, PDL1, B7-H1	CD274 molecule
CD276	NM_001024736.1	B7-H3, B7H3, B7RP-2	CD276 molecule
CD28	NM_001243078.1		CD28 molecule
CD33	NM_001177608.1	SIGLEC3, SIGLEC-3, p67, FLJ00391	CD33 molecule
CD34	NM_001025109.1		CD34 molecule
CD36	NM_001001548.2	SCARB3, GPIV, FAT, GP4, GP3B	CD36 molecule (thrombospondin receptor)
CD37	NM_001774.2	TSPAN26	CD37 molecule
CD38	NM_001775.2		CD38 molecule
CD3D	NM_000732.4	T3D	CD3d molecule, delta (CD3-TCR complex)
CD3E	NM_000733.2		CD3e molecule, epsilon (CD3-TCR complex)
CD3EAP	NM_012099.1	ASE-1, CAST, PAF49	CD3e molecule, epsilon associated protein
CD3G	NM_000073.2		CD3g molecule, gamma (CD3-TCR complex)
CD4	NM_000616.4		CD4 molecule
CD40	NM_001250.4	TNFRSF5, p50, Bp50	CD40 molecule, TNF receptor superfamily member 5
CD40LG	NM_000074.2	HIGM1, IMD3, TNFSF5, CD40L, TRAP, gp39, hCD40L, CD154	CD40 ligand
CD44	NM_001001392.1	MIC4, MDU2, MDU3, IN, MCS6, Pgp1, CD44R, HCELL, CSPG8	CD44 molecule (Indian blood group)
CD46	NM_172350.1	MIC10, MCP, TRA2.10, MGC26544, TLX	CD46 molecule, complement regulatory protein
CD47	NM_001777.3	MER6, IAP, OA3	CD47 molecule
CD48	NM_001778.2	BCM1, BLAST, mCD48, hCD48, SLAMF2	CD48 molecule
CD5	NM_014207.2	LEU1, T1	CD5 molecule
CD53	NM_001040033.1	MOX44, TSPAN25	CD53 molecule
CD55	NM_000574.3	DAF, CR, TC, CROM	CD55 molecule, decay accelerating factor for complement (Cromer blood group)
CD58	NM_001779.2	LFA3	CD58 molecule
CD59	NM_000611.4	MIC11, MIN1, MSK21, MIN2, MIN3, 16.3A5, E116, E130, EL32, G344, p18-20	CD59 molecule, complement regulatory protein
CD6	NM_006725.3	Tp120	CD6 molecule
CD63	NM_001780.4	MLA1, ME491, TSPAN30	CD63 molecule
CD68	NM_001251.2	SCARD1, macrosialin, GP110, DKFZp686M18236, LAMP4	CD68 molecule
CD7	NM_006137.6	GP40, LEU-9, TP41, TP40	CD7 molecule
CD70	NM_001252.2	CD27LG, TNFSF7, CD27L	CD70 molecule
CD74	NM_001025159.1	DHLA9	CD74 molecule, major histocompatibility complex, class II invariant chain
CD79A	NM_001783.3	IGA, MB-1	CD79a molecule, immunoglobulin-associated alpha
CD79B	NM_021602.2	IGB, B29	CD79b molecule, immunoglobulin-associated beta
CD80	NM_005191.3	CD28LG, CD28LG1, B7.1, B7-1	CD80 molecule
CD81	NM_004356.3	TAPA1, TAPA-1, TSPAN28	CD81 molecule
CD83	NM_004233.3	HB15, BL11	CD83 molecule
CD84	NM_001184879.1	SLAMF5, hCD84, mCD84	CD84 molecule
CD86	NM_175862.3	CD28LG2, B7.2, B7-2	CD86 molecule
CD8A	NM_001768.5	CD8	CD8a molecule
CD8B	NM_004931.3	CD8B1	CD8b molecule
CD9	NM_001769.2	MIC3, BA2, P24, TSPAN29, MRP-1	CD9 molecule
CD96	NM_005816.4	TACTILE	CD96 molecule
CD97	NM_078481.2	TM7LN1	CD97 molecule
CD99	NM_002414.3	MIC2	CD99 molecule
CDH1	NM_004360.2	UVO, uvomorulin, CD324	cadherin 1, type 1, E-cadherin (epithelial)
CDH5	NM_001795.3	7B4, CD144	cadherin 5, type 2 (vascular endothelium)
CDK1	NM_001786.4	CD2C, CD28A	cyclin-dependent kinase 1
CDKN1A	NM_000389.2	CDKN1, P21, CIP1, WAF1, SD1, CAP20, p21Cip1, p21Cip1/Waf1	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
CEACAM1	NM_001712.3	BGP, BGP1, CD66a	carcinoembryonic antigen-related cell adhesion molecule 1 (biliary glycoprotein)
CEACAM6	NM_002483.4	NCA, CD66c	carcinoembryonic antigen-related cell adhesion molecule 6 (non-specific cross reacting antigen)
CEACAM8	NM_001816.3	CGM6, CD66b	carcinoembryonic antigen-related cell adhesion molecule 8
CEBPB	NM_005194.2	TCFS, LAP, CRP2, NFIL6, IL6DBP, C/EBP-beta	CCAAT/enhancer binding protein (C/EBP), beta
CFB	NM_001710.5	BFD, BF, H2-Bf	complement factor B
CFD	NM_001928.2	DF, PFD, ADN	complement factor D (adipsin)
CFI	NM_000204.3	IF, FI, C3b-INa, KAF	complement factor I
CFP	NM_002621.2	PCF	complement factor properdin
CHIT1	NM_003465.2	CHIT, CHI3	chitinase 1 (chitotriosidase)
CHUK	NM_001278.3	TCF16, IKK1, IKK-alpha, IkBKA, NFKB1KA, IKKA	conserved helix-loop-helix ubiquitous kinase
CKLF	NM_181640.2	CKLF1, UCK-1, CKLF3, CKLF4, HSPC224, C32	chemokine-like factor
CLEC4A	NM_194448.2	CLECF6, DCIR, DDB27	C-type lectin domain family 4, member A
CLEC4C	NM_203503.1	CLECF11, CLECF7, HECL, DLEC, BDCA2, CD303	C-type lectin domain family 4, member C
CLEC5A	NM_013252.2	CLECF5, MDL-1	C-type lectin domain family 5, member A
CLEC6A	NM_001007033.1	CLECF10, dectin-2	C-type lectin domain family 6, member A
CLEC7A	NM_197954.2	CLECF12, dectin-1, hDectin-1	C-type lectin domain family 7, member A
CLU	NM_001831.2	CLI, APOJ, SGP-2, SP-40, TRPM-2, KUB1, CLU1, CLU2	clusterin
CMA1	NM_001836.2		chymase 1, mast cell
CMKLR1	NM_004072.1	RVER1	chemokine-like receptor 1
COL3A1	NM_000090.3	EDS4A	collagen, type III, alpha 1
COLEC12	NM_130386.2	SRCL, CL-P1, SCARA4	collectin sub-family member 12
CR1	NM_000651.4	CD35, KN	complement component (3b/4b) receptor 1 (Knops blood group)
CR2	NM_00100658.1	CD21	complement component (3d/Epstein Barr virus) receptor 2
CREB1	NM_004379.3		cAMP responsive element binding protein 1
CREB5	NM_182898.2	H_GS165L15.1, CRE-BPA	cAMP responsive element binding protein 5
CREBBP	NM_004380.2	RSTS, RTS, CBP, KAT3A	CREB binding protein
CRP	NM_000567.2	PTX1	C-reactive protein, pentraxin-related
CSF1	NM_000757.4	M-CSF, M-CSF, MGC31930	colony stimulating factor 1 (macrophage)
CSF1R	NM_005211.2	FMS, C-FMS, CSFR, CD115	colony stimulating factor 1 receptor
CSF2	NM_000758.2	GM-CSF, GMCSF	colony stimulating factor 2 (granulocyte-macrophage)
CSF2RB	NM_000395.2	IL3RB, IL5RB, CD131	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
CSF3	NM_000759.3	GCSF, G-CSF, C17orf33, MGC45931	colony stimulating factor 3 (granulocyte)
CSF3R	NM_156038.2	CD114, GCSFR	colony stimulating factor 3 receptor (granulocyte)
CT45A1	NM_001017417.1	CT45-1, CT45.1	cancer/testis antigen family 45, member A1
CTAG1B	NM_001327.2	CTAG, CTAG1, NY-ESO-1, LAGE2B, LAGE2A, ESO1, CT6.1	cancer/testis antigen 1B
CTAGE1	NM_172241.2	ctAGE-1, ctAGE-2, CTAGE, CT21.1, CT21.2	cutaneous T-cell lymphoma-associated antigen 1
CTCF	NM_001269042.1	d1579F20.2, BORIS, CT27	CCCTC-binding factor (zinc finger protein)-like
CTLA4	NM_005214.3	CEUIA3, IDDM12, CD152, CD, GSE, CD28, ICOS	cytotoxic T-lymphocyte-associated protein 4
CTSG	NM_001911.2	CG	cathepsin G
CTSH	NM_004390.3	CP5B, ACC-4, ACC-5	cathepsin H
CTSL	NM_001912.4	CTSL1, FLJ31037	cathepsin L
CTSS	NM_004079.3		cathepsin S
CTSW	NM_001335.3		cathepsin W
CX3CL1	NM_002996.3	SCYD1, NTN, C3Xkine, ABCD-3, CX3C, CX3, fractalkine, neurotactin	chemokine (C-X3-C motif) ligand 1
CT45A8	NM_001291535		CT45A8 (NM_001291535), CT45A6 (NM_001017438), CT45A9 (NM_001321271;NM_001291540), CT45A7 (NM_001291543), CT45A10 (NM_001291527;NM_001291529;NM_001291528;NM_001291530), CT45A3 (NM_001017435), CT45A5 (NM_001172288;NM_001007551)
CTAG1A	NM_139250		CTAG1A (NM_139250)

CX3CR1	NM_001337.3	GPR13, CMKBRLL1, CMKDR1, V28, CCRL1	chemokine (C-X3-C motif) receptor 1	
CXCL1	NM_001511.1	MGSA, GRO1, FSP, SCYB1, GROa, MGSA-a, NAP-3	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)	
CXCL10	NM_001565.1	INP10, SCYB10, IFI10, IP-10, crg-2, mob-1, C7, GPI-10	chemokine (C-X-C motif) ligand 10	
CXCL11	NM_005409.4	SCYB9B, SCYB11, H174, b-R1, I-TAC, IP-9	chemokine (C-X-C motif) ligand 11	
CXCL12	NM_000609.5	SDF1A, SDF1B, SDF1, SCYB12, SDF-1a, SDF-1b, PBSF, TLSF-a, TLSF-b, TPAR1	chemokine (C-X-C motif) ligand 12	
CXCL13	NM_006419.2	SCYB13, BLC, BCA-1, BLR1L, ANGLE, ANGLE2	chemokine (C-X-C motif) ligand 13	
CXCL14	NM_004887.4	SCYB14, BRAK, NJAK, bolekin, Kec, MIP-2g, BMAC, KS1	chemokine (C-X-C motif) ligand 14	
CXCL16	NM_001100812.1	SR-PSOX, CXCLG16, SRPSOX	chemokine (C-X-C motif) ligand 16	
CXCL2	NM_002089.3	GRO2, SCYB2, GROb, MIP-2a, MGSA-b, CINC-2a	chemokine (C-X-C motif) ligand 2	
CXCL3	NM_002090.2	GRO3, SCYB3, GROg, MIP-2b, CINC-2b	chemokine (C-X-C motif) ligand 3	
CXCL5	NM_002994.3	SCYB5, ENA-78	chemokine (C-X-C motif) ligand 5	
CXCL6	NM_002993.3	SCYB6, GCP-2, CKA-3	chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2)	
CXCL9	NM_002416.1	CMK, MIG, SCYB9, Humig, crg-10	chemokine (C-X-C motif) ligand 9	
CXCR1	NM_000634.2	CMKAR1, IL8RA, CKR-1, CDw128a, CD181	chemokine (C-X-C motif) receptor 1	
CXCR2	NM_001557.2	IL8RB, CMKAR2, CD182	chemokine (C-X-C motif) receptor 2	
CXCR3	NM_001504.1	GPR9, CKR-L2, CMKAR3, IP10-R, MigR, CD183	chemokine (C-X-C motif) receptor 3	
CXCR4	NM_003467.2	LESTR, NPY3R, HM89, NPY3R, D2S201E, fusin, HSY3RR, NPYR, CD184	chemokine (C-X-C motif) receptor 4	
CXCR5	NM_001716.3	BLR1, MDR15, CD185	chemokine (C-X-C motif) receptor 5	
CXCR6	NM_006564.1	TYMSTR, STRL33, BONZO, CD186	chemokine (C-X-C motif) receptor 6	
CYBB	NM_000397.3	CGD, GP91-PHOX, NOX2	cytochrome b-245, beta polypeptide	
CYFIP2	NM_001037332.2	PIR121	cytoplasmic FMR1 interacting protein 2	
CYLD	NM_015247.1	CYLD1, KIAA0849, USPL2	cyndromatosis (turban tumor syndrome)	
DDX43	NM_018665.2	HAGE, DKFZp434H2114, CT13	DEAD (Asp-Glu-Ala-Asp) box polypeptide 43	
DDX58	NM_014314.3	RIG-I, FLJ13599, DKFZp434J1111	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58	
DEFB1	NM_005218.3	HBD-1, DEFB-1, DEFB101, HBD1, BD1, MGC51822	defensin, beta 1	
DMBT1	NM_007329.2	GP340, muclin	deleted in malignant brain tumors 1	
DOCK9	NM_001130048.1	KIAA1058, ZIZ1	dedicator of cytokinesis 9	
DPP4	NM_001935.3	CD26, ADCP2, DPPIV	dipeptidyl-peptidase 4	
DUSP4	NM_057158.2	HVH2, MKP-2, TYP	dual specificity phosphatase 4	
DUSP6	NM_001946.2	MKP-3, PYST1	dual specificity phosphatase 6	
EBI3	NM_005755.2		Epstein-Barr virus induced 3	
ECSIT	NM_001142464.2	SITPEC	ECSIT homolog (Drosophila)	
EGR1	NM_001964.2	TIS8, G0S30, NGFI-A, KROX-24, ZIF-268, AT225, ZNF225	early growth response 1	
EGR2	NM_000399.3	KROX20	early growth response 2	
ELANE	NM_001972.2	ELA2, NE, HNE, HLE	elastase, neutrophil expressed	
ELK1	NM_005229.3		ELK1, member of ETS oncogene family	
ENG	NM_001114753.1	ORW1, ORW, END, HHT1, CD105	endoglin	
ENTPD1	NM_001098175.1	CD39, NTPDase-1, ATPDase, SPG64	ectonucleoside triphosphate diphosphohydrolase 1	
EOMES	NM_005442.2	TBR2	eomesodermin	
EP300	NM_001429.2	p300, KAT3B	E1A binding protein p300	
EPCAM	NM_002354.1	M4S1, MIC18, TACSTD1, Ly74, TROP1, GA733-2, EGP34, EGP40, EGP-2, KSA, CD326, Ep-CAM, HEA125, KSL1/4, MK-1, MH99, MOC31, 323/A3, 17-1A, TACST-	epithelial cell adhesion molecule	
ETS1	NM_005238.3	EWSR2, FLJ10768, ETS-1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)	
EWSR1	NM_013986.3	EWS	Ewing sarcoma breakpoint region 1	
F12	NM_000505.3		coagulation factor XII (Hageman factor)	
F13A1	NM_000129.3	F13A	coagulation factor XIII, A1 polypeptide	
F2RL1	NM_005242.3	GPR11, PAR2	coagulation factor II (thrombin) receptor-like 1	
FADD	NM_003824.2	MORT1, GIG3	Fas (TNFRSF6)-associated via death domain	
FAS	NM_00043.3	FAS1, APT1, TNFRSF6, CD95, APO-1	Fas (TNF receptor superfamily, member 6)	
FCER1A	NM_002001.2	FCER1A	Fc fragment of IgE, high affinity I, receptor for; alpha polypeptide	
FCER1G	NM_004106.1		Fc fragment of IgE, high affinity I, receptor for; gamma polypeptide	
FCER2	NM_002002.4	CD23A, FCE2, CLEC4J, CD23	Fc fragment of IgE, low affinity II, receptor for (CD23)	
FCGR1A	NM_000566.3	CD64, CD64A	Fc fragment of IgG, high affinity Ia, receptor (CD64)	FCGR1B (NM_001004340;NM_001017986)
FCGR2A	NM_021642.3	FCG2, FCGR2A1, FCGR2, CD32, CD32A, IGFR2, CDw32	Fc fragment of IgG, low affinity IIa, receptor (CD32)	
FCGR2B	NM_001002273.1	FCG2, FCGR2, CD32, CD32B	Fc fragment of IgG, low affinity IIb, receptor (CD32)	FCGR3B (NM_001271035;NM_000570;NM_001271036;NM_001271037;NM_001244753)
FCGR3A	NM_000569.6	FCGR3, FCG3, CD16, CD16a	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)	
FEZ1	NM_005103.4		fasciculation and elongation protein zeta 1 (zyglin I)	
FLT3	NM_004119.1	STK1, FLK2, CD135	fms-related tyrosine kinase 3	
FLT3LG	NM_001459.3		fms-related tyrosine kinase 3 ligand	
FN1	NM_212482.1	MSF, CIG, LETS, GFND2, FINC	fibronectin 1	
FOS	NM_005252.2	c-fos, AP-1	FBJ murine osteosarcoma viral oncogene homolog	
FOXJ1	NM_001454.3	FKHL13, HFH-4, HFH4	forkhead box J1	
FOXP3	NM_014009.3	IPEX, JM2, XPID, AID, PIDX, DIETER, SCURFIN	forkhead box P3	
FPR2	NM_001462.3	FPRL1, LXA4R, HM63, FPRH2, FMLPX, FPR2A, FMLP-R-II, ALXR	formyl peptide receptor 2	
FUT5	NM_002034.2	FUC-TV	fucosyltransferase 5 (alpha 1,3) fucosyltransferase)	
FUT7	NM_004479.3		fucosyltransferase 7 (alpha 1,3) fucosyltransferase)	
FYN	NM_002037.3	SYN, SLK, MGC45350	FYN oncogene related to SRC, FGR, YES	
GAGE1	NM_001040663.2	CT4.1	G antigen 1	
GATA3	NM_001002295.1	HDR	GATA binding protein 3	
GNLY	NM_006433.2	LAG2, NKG5, LAG-2, D2569E, TLA519	granulysin	
GPI	NM_000175.2	AMF, NLK	glucose-6-phosphate isomerase	
GTF3C1	NM_001520.3	TFIIIC220	general transcription factor IIIC, polypeptide 1, alpha 220kDa	
GZMA	NM_006144.2	HFSP, CTLA3	granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)	
GZMB	NM_004131.3	CTLA1, CSPB, CCP1, CGL-1, CSP-B, CGL1, CTSG11, HLP, SECT	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)	
GZMH	NM_033423.3	CTSG2, CGL-2, CCP-X, CTLA1, CSP-C	granzyme H (cathepsin G-like 2, protein h-CCPX)	
GZMK	NM_002104.2	TRYP2, PRSS	granzyme K (granzyme 3; trypsinase II)	
GZMM	NM_005317.2	MET1, LMET1	granzyme M (lymphocyte met-ase 1)	
HAMP	NM_021175.2	LEAP-1, HEPC, HFE2B, LEAP1	hepcidin antimicrobial peptide	
HAVCR2	NM_032782.3	Tim-3, TIM3, FLJ14428, TIMD3	hepatitis A virus cellular receptor 2	
HCK	NM_002110.2	JTK9	hemopoietic cell kinase	
HLA-A	NM_002116.5		major histocompatibility complex, class I, A	
HLA-B	NM_005514.6	AS	major histocompatibility complex, class I, B	
HLA-C	NM_002117.4	HLA-IY3, D6S204, PSORS1	major histocompatibility complex, class I, C	
HLA-DMA	NM_006120.3	D6S222E, RING6	major histocompatibility complex, class II, DM alpha	
HLA-DMB	NM_002118.3	D6S221E, RING7	major histocompatibility complex, class II, DM beta	
HLA-DOB	NM_002120.3		major histocompatibility complex, class II, DO beta	
HLA-DPA1	NM_033554.2	HLA-DP1A	major histocompatibility complex, class II, DP alpha 1	
HLA-DPB1	NM_002121.4	HLA-DP1B	major histocompatibility complex, class II, DP beta 1	
HLA-DQA1	NM_002122.3	HLA-DQA, CELIAC1	major histocompatibility complex, class II, DQ alpha 1	
HLA-DQB1	NM_002123.3	HLA-DQB, IDDM1, CELIAC1	major histocompatibility complex, class II, DQ beta 1	
HLA-DRA	NM_019111.3	HLA-DRA1	major histocompatibility complex, class II, DR alpha	
HLA-DRB3	NM_022555.3	HLA-DR3B	major histocompatibility complex, class II, DR beta 3	HLA-DRB5 (NM_002125), HLA-DRB1 (NM_002124;NM_001243965), HLA-DRB4 (NM_021983)
HLA-DRB4	NM_021983.4	DR4, DR-4, DRB4, HLA-DR4B	major histocompatibility complex, class II, DR beta 4	
HLA-E	NM_005516.4		major histocompatibility complex, class I, E	
HLA-G	NM_002127.4		major histocompatibility complex, class I, G	
HMG1	NM_002128.4	HMG1, HMG3, SBP-1, DKFZp686A04236	high mobility group box 1	
HRAS	NM_005343.2	HRAS1	v-Ha-ras Harvey rat sarcoma viral oncogene homolog	
HSD11B1	NM_181755.1	HSD11B, HSD11, SDR26C1	hydroxysteroid (11-beta) dehydrogenase 1	
ICAM1	NM_000201.2	B82, CD54	intercellular adhesion molecule 1	
ICAM2	NM_000873.3	CD102	intercellular adhesion molecule 2	
ICAM3	NM_002162.3	CDW50, ICAM-R, CD50	intercellular adhesion molecule 3	
ICAM4	NM_001039132.1	LW, CD242	intercellular adhesion molecule 4 (Landsteiner-Wiener blood group)	
ICOS	NM_012092.2	ALIM, CD278	inducible T-cell co-stimulator	
ICOSLG	NM_015259.4	ICOSL, KIAA0653, GL50, B7-H2, B7RP-1, B7H2, B7RP1, ICOS-L, CD275	inducible T-cell co-stimulator ligand	
IDO1	NM_002164.3	IDO, INDO	indoleamine 2,3-dioxygenase 1	
IFI16	NM_005531.1	IFNGIP1, PYHIN2	interferon, gamma-inducible protein 16	

IFI27	NM_005532.3	P27, FAM14D	interferon, alpha-inducible protein 27	
IFI35	NM_005533.3	IFP35	interferon-induced protein 35	
IFIH1	NM_022168.2	MDA-5, Hicd, MDA5, IDDM19	interferon induced with helicase C domain 1	
IFIT1	NM_001548.3	G10P1, IFI56, IFNA13, GARG-16	interferon-induced protein with tetratricopeptide repeats 1	
IFIT2	NM_001547.4	IFI54, G10P2, IFI-54, ISG-54K, cig42, GARG-39	interferon-induced protein with tetratricopeptide repeats 2	
IFITM1	NM_003641.3	IFI17, 9-27, CD225	interferon induced transmembrane protein 1	
IFITM2	NM_006435.2	1-8D	interferon induced transmembrane protein 2	
IFNA1	NM_024013.1	IFNA@, iFL, IFN, IFN-ALPHA, IFNA13, IFN-alphaD	interferon, alpha 1	IFNA13 (NM_006900)
IFNA17	NM_021268.2	LEIF2C1, IFN-alphaH	interferon, alpha 17	
IFNA2	NM_000605.3	IFNA, IFN-alphaA	interferon, alpha 2	
IFNA7	NM_021057.2	IFNA-J, IFN-alphaJ	interferon, alpha 7	IFNA4 (NM_021068), IFNA10 (NM_002171), IFNA21 (NM_002175), IFNA7 (NM_021057)
IFNA8	NM_002170.3	IFN-alphaB	interferon, alpha 8	IFNA4 (NM_021068)
IFNAR1	NM_000629.2	IFNAR, IFRC	interferon (alpha, beta and omega) receptor 1	
IFNAR2	NM_000874.3	IFNABR	interferon (alpha, beta and omega) receptor 2	
IFNB1	NM_002176.2	IFNB, IFB, IFF	interferon, beta 1, fibroblast	
IFNG	NM_000619.2		interferon, gamma	
IFNGR1	NM_000416.1	IFNGR, CD119	interferon gamma receptor 1	
IFNL1	NM_172140.1	IL29, IL-29	interferon lambda 1	
IFNL2	NM_172138.1	IL28A, IL-28A	interferon lambda 2	
IGF1R	NM_000875.2	JTK13, CD221, IGFR, MGC18216, IGFR	insulin-like growth factor 1 receptor	
IGF2R	NM_000876.1	CD222, MPR1, MPR1, CIMPR, M6P-R	insulin-like growth factor 2 receptor	
IGLL1	NM_020070.2	IGLL, IGVFB, IGL5, I4.1, CD179B	immunoglobulin lambda-like polypeptide 1	
IKKB	NM_001556.1	IKK2, NFKBKB, IKK-beta, IKKB	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta	
IKBKE	NM_014002.2	IKKE, IKK-i, KIAA0151	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon	
IKBKG	NM_003639.2	IP2, IP1, IKK-gamma, NEMO, Fip3p, FIP-3, FIP3, ZCH29	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma	
IL10	NM_000572.2	CSIF, TGIF, IL10A, IL-10	interleukin 10	
IL10RA	NM_001558.2	IL10R, HIL-10R, CDW210A, CD210a, CD210	interleukin 10 receptor, alpha	
IL11	NM_000641.2	IL-11, AGIF	interleukin 11	
IL11RA	NM_147162.1		interleukin 11 receptor, alpha	
IL12A	NM_000882.2	NKSF1, CLMF, IL-12A, p35, NFK	interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35)	
IL12B	NM_002187.2	NKSF2, CLMF, IL-12B, NKSF, CLMF2	interleukin 12B (natural killer cell stimulatory factor 2, cytotoxic lymphocyte maturation factor 2, p40)	
IL12RB1	NM_005535.1	IL12RB, CD212	interleukin 12 receptor, beta 1	
IL12RB2	NM_001559.2		interleukin 12 receptor, beta 2	
IL13	NM_002188.2	P600, IL-13, ALRH, BHR1, MGC116786, MGC116788, MGC116789	interleukin 13	
IL13RA1	NM_001560.2	IL-13Ra, NR4, CD213a1	interleukin 13 receptor, alpha 1	
IL13RA2	NM_000640.2	IL-13R, IL13BP, CD213a2, CT19	interleukin 13 receptor, alpha 2	
IL15	NM_172174.1	IL-15, MGC9721	interleukin 15	
IL15RA	NM_002189.2	CD215, IL-15RA	interleukin 15 receptor, alpha	
IL16	NM_004513.4	LCF, IL-16, pIL-16, HsT19289, FLJ42735, FLJ16806	interleukin 16	
IL17A	NM_002190.2	CTLA8, IL17, IL-17A, IL-17	interleukin 17A	
IL17B	NM_014443.2	IL-17B, ZCYTO7, IL-20, MGC138900, MGC138901, NIRF	interleukin 17B	
IL17F	NM_052872.3	IL-17F, ML-1, MLI1	interleukin 17F	
IL17RA	NM_014339.6	IL17R, hIL-17R, IL-17RA, CDw217, CD217	interleukin 17 receptor A	
IL17RB	NM_018725.3	IL17BR, IL17RH1, EVI27, CRL4	interleukin 17 receptor B	
IL18	NM_001562.2	IGIF, IL1F4, IL-1g, IL-18	interleukin 18 (interferon-gamma-inducing factor)	
IL18R1	NM_003855.2	IL1RRP, IL-1Rrp, CD218a	interleukin 18 receptor 1	
IL18RAP	NM_003853.2	AcP, CD218b	interleukin 18 receptor accessory protein	
IL19	NM_013371.3	IL-19, MDA1, ZMDA1, IL-10C, NG.1	interleukin 19	
IL1A	NM_000575.3	IL1, IL1F1, IL-1A, IL1-ALPHA	interleukin 1, alpha	
IL1B	NM_000576.2	IL1F2, IL-1B, IL1-BETA	interleukin 1, beta	
IL1R1	NM_000877.2	IL1R, IL1RA, D251473, CD121A	interleukin 1 receptor, type I	
IL1R2	NM_173343.1	IL1RB, CD121b	interleukin 1 receptor, type II	
IL1RAP	NM_002182.2	IL-1RACp, IL1R3, C3orf13	interleukin 1 receptor accessory protein	
IL1RAPL2	NM_017416.1	IL-1R9, TIGIRR-1, IL1RAPL-2, IL1R9	interleukin 1 receptor accessory protein-like 2	
IL1RL1	NM_016232.4	ST2, FIT-1, ST2L, ST2V, DER4, T1, IL33R	interleukin 1 receptor-like 1	
IL1RL2	NM_003854.2	IL1R-rp2, IL1RRP2	interleukin 1 receptor-like 2	
IL1RN	NM_000577.3	IL1RA, ICIL-1RA, IL1F3, IRAP, IL-1RN, MGC10430	interleukin 1 receptor antagonist	
IL2	NM_000586.2	IL-2, TCGF	interleukin 2	
IL21	NM_021803.2	Za11, IL-21	interleukin 21	
IL21R	NM_021798.2	CD360	interleukin 21 receptor	
IL22	NM_020525.4	ILTIF, IL-21, zcyto18, IL-TIF, IL-D110, TIFA, TIFIL-23, IL-22, MGC79382, MGC79384	interleukin 22	
IL22RA1	NM_021258.2	IL22R, CRF2-9	interleukin 22 receptor, alpha 1	
IL22RA2	NM_181310.1	CRF2-S1, IL-22BP	interleukin 22 receptor, alpha 2	
IL23A	NM_016584.2	SGRF, IL23P19, IL-23, IL-23A, P19	interleukin 23, alpha subunit p19	
IL23R	NM_144701.2	IL-23R	interleukin 23 receptor	
IL24	NM_181339.1	ST16, mda-7, IL10B, Mob-5, C49A, FISP, IL-24	interleukin 24	FCMR (NM_005449;NM_001193338;NM_001142473)
IL25	NM_022789.2	IL17E, IL-25, IL-17E	interleukin 25	
IL26	NM_018402.1	AK155, IL-26	interleukin 26	
IL27	NM_145659.3	IL30, IL-27, p28, IL27p28, IL-27A, IL27A, MGC71873	interleukin 27	
IL2RA	NM_000417.1	IL2R, IDDM10, CD25	interleukin 2 receptor, alpha	
IL2RB	NM_000878.2	IL15RB, CD122	interleukin 2 receptor, beta	
IL2RG	NM_000206.1	SCIDX1, IMD4, CIDX, CD132	interleukin 2 receptor, gamma	
IL3	NM_000588.3	IL-3, MULTI-CSF, MCGF, MGC79398, MGC79399	interleukin 3 (colony-stimulating factor, multiple)	
IL32	NM_004221.4	NK4, TAIF, TAIFb, TAIFd	interleukin 32	
IL34	NM_152456.1	C16orf77, MGC34647, IL-34	interleukin 34	
IL3RA	NM_002183.2	CD123	interleukin 3 receptor, alpha (low affinity)	
IL4	NM_000589.2	BSF1, IL-4, BCGF1, BCGF-1, MGC79402	interleukin 4	
IL4R	NM_000418.2	CD124	interleukin 4 receptor	
IL5	NM_000879.2	IL-5, EDF, TRF	interleukin 5 (colony-stimulating factor, eosinophil)	
IL5RA	NM_000564.3	IL5R, CDw125, CD125	interleukin 5 receptor, alpha	
IL6	NM_000600.1	IFNB2, IL-6, BSF2, HGF, HSF	interleukin 6 (interferon, beta 2)	
IL6R	NM_000565.2	CD126	interleukin 6 receptor	
IL6ST	NM_002184.2	GP130, CD130	interleukin 6 signal transducer (gp130, oncostatin M receptor)	
IL7	NM_000880.2	IL-7	interleukin 7	
IL7R	NM_002185.2	CD127	interleukin 7 receptor	
IL8	NM_000584.2	IL8RB, CMKAR2, CD182	C-X-C motif chemokine ligand 8	
IL9	NM_000590.1	IL-9, HP40, P40	interleukin 9	
ILF3	NM_001137673.1	NF90, MPHOSPH4, MPP4, DRBP76, NFAR-1	interleukin enhancer binding factor 3, 90kDa	
INPP5D	NM_005541.3	SHIP, hp51CN	inositol polyphosphate 5-phosphatase, 145kDa	
IRAK1	NM_001569.3	IRAK, pelle	interleukin-1 receptor-associated kinase 1	
IRAK2	NM_001570.3		interleukin-1 receptor-associated kinase 2	
IRAK4	NM_016123.1	NY-REN-64	interleukin-1 receptor-associated kinase 4	
IRF1	NM_002198.1	MAR	interferon regulatory factor 1	
IRF2	NM_002199.3		interferon regulatory factor 2	
IRF3	NM_001571.5		interferon regulatory factor 3	
IRF4	NM_002460.1	MUM1, LSIRF	interferon regulatory factor 4	
IRF5	NM_002200.3		interferon regulatory factor 5	
IRF7	NM_001572.3		interferon regulatory factor 7	
IRF8	NM_002163.2	ICSBP1, IRF-8, ICSBP	interferon regulatory factor 8	
IRGM	NM_001145805.1	IRGM1, LRG47, LRG-47, IFI1	immunity-related GTPase family, M	
ISG15	NM_005101.3	G1P2, IFI15, UCRP	ISG15 ubiquitin-like modifier	
ISG20	NM_002201.4	HEM45, CD25	interferon stimulated exonuclease gene 20kDa	
ITCH	NM_001257138.1	AIP4	itchy E3 ubiquitin protein ligase	
ITGA1	NM_181501.1	VLA1, CD49a	integrin, alpha 1	
ITGA2	NM_002203.2	CD49B, CD49b	integrin, alpha 2 (CD49B, alpha 2 subunit of VLA-2 receptor)	
ITGA2B	NM_000419.3	GP2B, CD41B, CD41, PPP1R93	integrin, alpha 2b (platelet glycoprotein IIb of IIb/IIIa complex, antigen CD41)	

ITGA4	NM_000885.4	CD49D, CD49d	integrin, alpha 4 (antigen CD49D, alpha 4 subunit of VLA-4 receptor)	
ITGA5	NM_002205.2	FNRA, CD49e	integrin, alpha 5 (fibronectin receptor, alpha polypeptide)	
ITGA6	NM_000210.1	CD49f	integrin, alpha 6	
ITGAE	NM_002208.4	CD103, HUMINAE	integrin, alpha E (antigen CD103, human mucosal lymphocyte antigen 1; alpha polypeptide)	
ITGAL	NM_002209.2	CD11A, LFA-1	integrin, alpha L (antigen CD11A (p180), lymphocyte function-associated antigen 1; alpha polypeptide)	
ITGAM	NM_000632.3	CR3A, CD11B, MAC-1, CD11b	integrin, alpha M (complement component 3 receptor 3 subunit)	
ITGAX	NM_000887.3	CD11C, CD11c	integrin, alpha X (complement component 3 receptor 4 subunit)	
ITGB1	NM_033666.2	FNRB, MSK12, MDF2, CD29, GPIIA	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)	
ITGB2	NM_000211.2	CD18, MF17, LFA-1, MAC-1	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)	
ITGB3	NM_000212.2	GP3A, CD61, GPIIa	integrin, beta 3 (platelet glycoprotein IIIa, antigen CD61)	
ITGB4	NM_001005731.1	CD104	integrin, beta 4	
ITK	NM_005546.3	EMT, PSCTK2, LYK	IL2-inducible T-cell kinase	
JAK1	NM_002227.1	JAK1B, JAK1A, JTK3	Janus kinase 1	
JAK2	NM_004972.2	JTK10	Janus kinase 2	
JAK3	NM_000215.2	L-JAK, JAKL, LIAK, JAK3_HUMAN, JAK-3	Janus kinase 3	
JAM3	NM_032801.3	JAM-C, JAMC	junctional adhesion molecule 3	
KIR_Activating_Subgroup_1	NM_001083539.1	nkat10	killer cell immunoglobulin-like receptor, three domains, short cytoplasmic tail, 1	KIR2D54 (NM_012314;NM_001281972;NM_001281971), KIR2D51 (NM_014512)
KIR_Activating_Subgroup_2	NM_014512.1	CD158H, EB6ActI, EB6ActII	killer cell immunoglobulin-like receptor, two domains, short cytoplasmic tail, 1	KIR2D54 (NM_001281971;NM_001281972;NM_012314), KIR2D55 (NM_014513), KIR2D53 (NM_012313), KIR2D52 (NM_001291700;NM_012312;NM_001291696;NM_001291695)
KIR_Inhibiting_Subgroup_1	NM_014218.2	cl-42, nkat1, 47.11, p58.1, CD158A	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 1	KIR2DL2 (NM_014219)
KIR_Inhibiting_Subgroup_2	NM_014511.3	cl-6, nkat2, nkat2a, nkat2b, p58, CD158B2	killer cell immunoglobulin-like receptor, two domains, long cytoplasmic tail, 3	KIR2DL2 (NM_014219), KIR2DL5B (NM_001018081), KIR2DL5A (NM_020535), KIR3DL3 (NM_153443), KIR2DL4 (NM_001080772;NM_001080770;NM_002255)
KIR3DL1	NM_013289.2	KIR, cl-2, NKB1, cl-11, nkat3, NKB1B, AMB11, CD158e1/2, CD158E1, CD158E2	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1	KIR2DL3 (NM_015868), KIR3DL2 (NM_001242867;NM_006737)
KIR3DL2	NM_006737.2	cl-5, nkat4, nkat4a, nkat4b, CD158K	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2	
KIR3DL3	NM_153443.3	KIRC1, KIR3DL7, KIR44, CD158z	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 3	
KIT	NM_000222.2	PBT, CD117, SCFR, C-Kit	v-kit Hardy-Zuckerman 4 feline sarcoma viral oncogene homolog	
KLRB1	NM_002258.2	NKR, CD161, NKR-P1, NKR-P1A, hNKR-P1A, CLECSB	killer cell lectin-like receptor subfamily B, member 1	
KLRC1	NM_002259.3	NGK2, NGK2-A, NGK2-B, CD159a	killer cell lectin-like receptor subfamily C, member 1	
KLRC2	NM_002260.3	NGK2-C, CD159c	killer cell lectin-like receptor subfamily C, member 2	KLRC1 (NM_002259;NM_213657;NM_213658;NM_007328)
KLRC3	NM_002262.3	CD94	killer cell lectin-like receptor subfamily D, member 1	
KLRF1	NM_016523.1	CLECSF, Nkp80	killer cell lectin-like receptor subfamily F, member 1	
KLRG1	NM_005810.3	MAFA, 2F1, MAFA-L, CLECS15A	killer cell lectin-like receptor subfamily G, member 1	
KLRK1	NM_007360.3	D12S2489E, NGK2D, KLR, NGK2-D, CD314	killer cell lectin-like receptor subfamily K, member 1	
LAG3	NM_002286.5	CD223	lymphocyte-activation gene 3	
LAIR2	NM_002288.3	CD306	leukocyte-associated immunoglobulin-like receptor 2	
LAMP1	NM_005561.3	CD107a	lysosomal-associated membrane protein 1	
LAMP2	NM_001122606.1	CD107b	lysosomal-associated membrane protein 2	
LAMP3	NM_014398.3	LAMP, TSC403, DC-LAMP, DCLAMP, CD208	lysosomal-associated membrane protein 3	
LBP	NM_004139.2	BP1FD2	lipopolysaccharide binding protein	
LCK	NM_005356.2		lymphocyte-specific protein tyrosine kinase	
LCN2	NM_005564.3	NGAL, 24p3	lipocalin 2	
LCP1	NM_002298.4	PLS2, CP64, L-PLASTIN, LC64P	lymphocyte cytosolic protein 1 (L-plastin)	
LGALS3	NM_001177388.1	LGALS2, MAC-2, GALIG	lectin, galactoside-binding, soluble, 3	
LIF	NM_002309.3	CD7, DIA, HILDA	leukemia inhibitory factor	
LILRA1	NM_006863.1	LIR-6, CD85i, LIR6	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1	
LILRA4	NM_012276.3	ILT7, CD85g	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 4	
LILRA5	NM_181879.2	LILRB7, ILT11, LIR9, CD85, CD85f	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5	
LILRB1	NM_001081637.1	LIR-1, ILT2, MIR-7, CD85, LIR1, CD85j	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 1	
LILRB2	NM_005874.1	LIR-2, ILT4, MIR-10, LIR2, CD85d, MIR10	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 2	
LILRB3	NM_006864.2	LIR-3, HL9, ILT5, LIR3, CD85a	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3	
LRP1	NM_002332.2	APR, A2MR, LRP, CD91, LRP1A, APOER	low density lipoprotein receptor-related protein 1	
LRRN3	NM_001099660.1	NLRR3, FLJ11129, FIGLER5	leucine rich repeat neuronal 3	
LTA	NM_000595.2	TNFB, TNFSF1, LT	lymphotoxin alpha (TNF superfamily, member 1)	
LTB	NM_002341.1	TNFC, p33, TNFSF3	lymphotoxin beta (TNF superfamily, member 3)	
LTBR	NM_002342.1	D12S370, TNFCR, TNFR-RP, TNFR2-RP, TNF-R-III, TNFRSF3	lymphotoxin beta receptor (TNFR superfamily, member 3)	
LTJ	NM_002343.2	HLF2	lactotransferrin	
LTK	NM_001135685.1	TYK1	leukocyte receptor tyrosine kinase	
LY86	NM_004271.3	MD-1, dJ80N2.1	lymphocyte antigen 86	
LY9	NM_001033667.1	CD229, mLY9, SLAMF3, hly9	lymphocyte antigen 9	
LY96	NM_015364.2	MD-2	lymphocyte antigen 96	
LYN	NM_002350.1	JTK8	v-yes-1 Yamaguchi sarcoma viral related oncogene homolog	
MAF	NM_005360.4	c-MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)	
MAGEA1	NM_004988.4	MAGE1, MGC9326, CT1.1	melanoma antigen family A, 1 (directs expression of antigen MZ2-E)	
MAGEA12	NM_001166386.1	MAGE12, CT1.12	melanoma antigen family A, 12	
MAGEA3	NM_005362.3	MAGE3, HYPD, HIP8, MGC14613, CT1.3	melanoma antigen family A, 3	MAGEA6 (NM_175868;NM_005363)
MAGEA4	NM_001011548.1	MAGE4, MAGE4A, MAGE4B, MAGE-41, MAGE-X2, MGC21336, CT.4	melanoma antigen family A, 4	
MAGEB2	NM_002364.4	DAM6, MAGE-XP-2, MGC26438, CT3.2	melanoma antigen family B, 2	
MAGEC1	NM_005462.4	MAGE-C1, CT7, MGC39366, CT7.1	melanoma antigen family C, 1	
MAGEC2	NM_016249.3	MAGEE1, CT10, MAGE-C2	melanoma antigen family C, 2	
MAP2K1	NM_002755.2	PRKMK1, MEK1, MAPKK1	mitogen-activated protein kinase kinase 1	
MAP2K2	NM_030662.2	PRKMK2, MEK2	mitogen-activated protein kinase kinase 2	
MAP2K4	NM_003010.2	SERK1, MEK4, JNKK1, PRKMK4, MKK4	mitogen-activated protein kinase kinase 4	
MAP3K1	NM_005921.1	MEKK1, MEKK, MAPKKK1	mitogen-activated protein kinase kinase kinase 1, E3 ubiquitin protein ligase	
MAP3K5	NM_005923.3	MEKK5, MAPKKK5, ASK1	mitogen-activated protein kinase kinase kinase 5	
MAP3K7	NM_145333.1	TAK1, MEK7	mitogen-activated protein kinase kinase kinase 7	
MAP4K2	NM_004579.2	RABBP1, GCK, BL44	mitogen-activated protein kinase kinase kinase kinase 2	
MAPK1	NM_138957.2	PRKM2, PRKM1, ERK, ERK2, p41mapk, MAPK2	mitogen-activated protein kinase 1	
MAPK11	NM_002751.5	PRKM11, p38-2, p38Beta, SAPK2	mitogen-activated protein kinase 11	
MAPK14	NM_001315.1	CSPB1, CSBP1, CSBP2, PRKM14, p38, Mxi2, PRKM15	mitogen-activated protein kinase 14	
MAPK3	NM_001040056.1	PRKM3, ERK1, p44mapk, p44erk1	mitogen-activated protein kinase 3	
MAPK8	NM_002750.2	PRKM8, JNK, JNK1, SAPK1	mitogen-activated protein kinase 8	
MAPKAPK2	NM_004759.3		mitogen-activated protein kinase-activated protein kinase 2	
MARCO	NM_006770.3	SCARA2	macrophage receptor with collagenous structure	
MASP1	NM_139125.3	CRARF, PRSS5, MASP	mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)	
MASP2	NM_139208.1	MASP1P1	mannan-binding lectin serine peptidase 2	
MAVS	NM_020746.3	VISA, KIAA1271, IPS-1, Cardif	mitochondrial antiviral signaling protein	
MBL2	NM_000242.2	MBL, COLEC1	mannose-binding lectin (protein C) 2, soluble	
MCAM	NM_006500.2	MUC18, CD146	melanoma cell adhesion molecule	
MEF2C	NM_002397.3		myocyte enhancer factor 2C	
MEFV	NM_000243.2	MEF, FMF, TRIM20	Mediterranean fever	
MERTK	NM_006343.2	mer, RP38	c-mer proto-oncogene tyrosine kinase	
MFG8	NM_001114614.1	SPAG10, SED1, EDIL1, BA46, OAcGD35, HsT19888, MFG-E8, hp47	milk fat globule-EGF factor 8 protein	
MICA	NM_000247.1	PERB11.1	MHC class I polypeptide-related sequence A	
MICB	NM_005931.3	PERB11.2	MHC class I polypeptide-related sequence B	
MIF	NM_002415.1	GLIF, GIF	macrophage migration inhibitory factor (glycosylation-inhibiting factor)	
MME	NM_000902.2	CALLA, CD10, NEP	membrane metallo-endopeptidase	

MNX1	NM_005515.3	HLXB9, HB9, HOXB9, SCRA1	motor neuron and pancreas homeobox 1
MPPED1	NM_001044370.1	C22orf1, 239AB, FAM1A	metallophosphoesterase domain containing 1
MR1	NM_001531.2	HLA5	major histocompatibility complex, class I-related
MRC1	NM_002438.2	MRC1L1, CLEC13D, CD206, BA541119.1, CLEC13DL	mannose receptor, C type 1
MS4A1	NM_152866.2	CD20, B1, Bp35, MS4A2	membrane-spanning 4-domains, subfamily A, member 1
MS4A2	NM_000139.3	FCER1B, IGER, APY, MS4A1	membrane-spanning 4-domains, subfamily A, member 2
MSR1	NM_002445.3	SCARA1, CD204	macrophage scavenger receptor 1
MST1R	NM_002447.1	RON, PTK8, CDw136, CD136	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)
MUC1	NM_001018017.1	PUM, MCKD1, CD227, PEM, ADMCKD, ADMCKD1, MCKD, MCD	mucin 1, cell surface associated
MX1	NM_002462.2	IFI-78k, MxA	myxovirus (influenza virus) resistance 1, interferon-inducible protein p78 (mouse)
MYD88	NM_002468.3		myeloid differentiation primary response gene (88)
NCAM1	NM_000615.5	NCAM, CD56	neural cell adhesion molecule 1
NCF4	NM_000631.4	p40phox, SH3PXD4	neutrophil cytosolic factor 4, 40kDa
NCR1	NM_004829.5	LY94, NK-p46, NKp46, CD335	natural cytotoxicity triggering receptor 1
NEFL	NM_006158.3	NFL, CMT1F, CMT2E, NF68, PPP1R110	neurofilament, light polypeptide
NFATC1	NM_172389.1	NF-ATC, NFATc, NFAT2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1
NFATC2	NM_012340.3	NF-ATP, NFATp, NFAT1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2
NFATC3	NM_004555.2	NFAT4, NFATX	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3
NFATC4	NM_001136022.2	NFAT3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4
NFKB1	NM_003998.2	KBF1, p105, NFKB-p50, p50, NF-kappaB, Nf-kappaB, NF-kb1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
NFKB2	NM_002502.2	LYT-10, p52, p105, NF-kb2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)
NFKBIA	NM_020529.1	NFKB1, IKBA, MAD-3, ikappaBalpha	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
NLRCS	NM_032206.4	NOD27, CLR16.1, FLJ21709	NLR family, CARD domain containing 5
NLRP3	NM_001079821.2	C1orf7, CIAS1, AGTAVPRL, AII, AVP, FCAS, FCU, NALP3, PYPAF1, MWS, CLR1.1	NLR family, pyrin domain containing 3
NOD1	NM_006092.1	CARD4, NLR1, CLR7.1	nucleotide-binding oligomerization domain containing 1
NOD2	NM_022162.1	IBD1, CARD15, BLAU, CD, PSORAS1, CLR16.3, NLRCS	nucleotide-binding oligomerization domain containing 2
NOS2A	NM_153292.1	NOS, INOS, NOS2A, HEP-NOS, NOS2A	nitric oxide synthase 2
NOTCH1	NM_017617.3	TAN1	notch 1
NRP1	NM_003873.5	NRP, VEGF165R, CD304	neuropilin 1
NTSE	NM_002526.2	NTS, CD73, eN, eNT, CALJA	5'-nucleotidase, ecto (CD73)
NUP107	NM_020401.2	NUP84	nucleoporin 107kDa
OAS3	NM_006187.2		2'-5'-oligoadenylate synthetase 3, 100kDa
OSM	NM_020530.4	MGC20461	oncostatin M
PASD1	NM_173493.2	CT63	PAS domain containing 1
PAX5	NM_016734.1	BSAP	paired box 5
PBK	NM_018492.2	TOPK, FLJ14385, Nori-3, SPK, CT84	PDZ binding kinase
PDCD1	NM_005018.1	SLEB2, CD279, PD1, hSLE1	programmed cell death 1
PDCD1LG2	NM_025239.3	PD-L2, Btdc, PDL2, BA574F11.2, CD273, B7-DC	programmed cell death 1 ligand 2
PDGFC	NM_016205.2	SCDFG, fallotin	platelet derived growth factor C
PDGFRB	NM_002609.3	PDGFR, JTK12, CD140b, PDGFR1	platelet-derived growth factor receptor, beta polypeptide
PECAM1	NM_000442.3	CD31	platelet/endothelial cell adhesion molecule 1
PIK3CD	NM_005026.3	p110D	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit delta
PIK3CG	NM_002649.2		phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit gamma
PIN1	NM_006221.2	dod	peptidylprolyl cis/trans isomerase, NIMA-interacting 1
PLA2G1B	NM_000928.2	PLA2, PPLA2, PLA2A	phospholipase A2, group 1B (pancreas)
PLA2G6	NM_001004426.1	iPLA2, PNPLA9, PARK14, iPLA2beta, NBIA2	phospholipase A2, group VI (cytosolic, calcium-independent)
PLAU	NM_002658.2	URK, UPA	plasminogen activator, urokinase
PLAUR	NM_001005376.1	URKR, UPAR, CD87	plasminogen activator, urokinase receptor
PMCH	NM_002674.2	MCH	pro-melanin-concentrating hormone
PNMA1	NM_006029.4	MA1	paraneoplastic Ma antigen 1
POU2AF1	NM_006235.2	OBF1	POU class 2 associating factor 1
POU2F2	NM_002698.2	OTF2, 41914	POU class 2 homeobox 2
PPARG	NM_015869.3	PPARG1, PPARG2, NR1C3, PPARgamma, THBBG1, SCYB7, TGB, NAP-2-1.1, LA-PF4, MDGF, LDGF, Beta-TG, CTAP3,	peroxisome proliferator-activated receptor gamma
PPBP	NM_002704.2	CXCL7, PBP, b-TG1, TGB1, CTAPIII, NAP-2	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)
PRAME	NM_006115.3	MAPE, CT130	preferentially expressed antigen in melanoma
PRF1	NM_005041.3	PRF, P1, HPLH2	perforin 1 (pore forming protein)
PRG2	NM_002728.4	MBP, BMPG	proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)
PRKCD	NM_006254.3		protein kinase C, delta
PRKCE	NM_005400.2		protein kinase C, epsilon
PRM1	NM_002761.2	CT94.1	protamine 1
PSEN1	NM_000021.2	AD3, FAD, S182, PS1	presenilin 1
PSEN2	NM_000447.2	AD4, AD3L, STM2, PS2	presenilin 2 (Alzheimer disease 4)
PSMB10	NM_002801.2	MECL1, LMP10, MGC1665, beta2i	proteasome (prosome, macropain) subunit, beta type, 10
PSMB7	NM_002799.2	Z	proteasome (prosome, macropain) subunit, beta type, 7
PSMB8	NM_004159.4	LMP7, RING10, D6S216E, PSMB5i, beta5i	proteasome (prosome, macropain) subunit, beta type, 8 (large multifunctional peptidase 7)
PSMB9	NM_002800.4	LMP2, RING12, beta1i, PSMB6i	proteasome (prosome, macropain) subunit, beta type, 9 (large multifunctional peptidase 2)
PSMD7	NM_002811.3	S12, P40, MOV34, Rpn8	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
PTGDR2	NM_004778.1	GPR44, CRTH2, CD294, DP2	prostaglandin D2 receptor 2
PTGS2	NM_000963.1	COX2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
PTPRC	NM_080921.3	CD45, LCA, T200, GP180	protein tyrosine phosphatase, receptor type, C
PVR	NM_006505.3	PVS, CD155, HVED, Necl-5, NECL5, Tage4	poliovirus receptor
PYCARD	NM_013258.3	TMS-1, CARDS, ASC	PYD and CARD domain containing
RAG1	NM_000448.2	RNF74, MGC43321	recombination activating gene 1
REL	NM_002908.2	I-Rel, c-Rel	v-rel reticuloendotheliosis viral oncogene homolog (avian)
RELA	NM_021975.2	NFKB3, p65	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
RELB	NM_006509.2	REL-B	v-rel reticuloendotheliosis viral oncogene homolog B
REPS1	NM_001128617.2		RALBP1 associated Eps domain containing 1
RIPK2	NM_003821.5	RICK, RIP2, CARDIAC, CARD3	receptor-interacting serine-threonine kinase 2
ROPN1	NM_017578.2	ODF6, ropporin, ROPN1A, CT91	rhophilin associated tail protein 1
RORA	NM_134261.2	RZRA, ROR1, ROR2, ROR3, NR1F1	RAR-related orphan receptor A
RORC	NM_001001523.1	RZRG, RORG, NR1F3, TOR	RAR-related orphan receptor C
RP56	NM_001010.2	S6	ribosomal protein S6
RRAD	NM_004165.1	REM3, RAD	Ras-related associated with diabetes
RUNX1	NM_001754.4	AML1, CBF2A2, PEBP2A2, AMLCR1	runt-related transcription factor 1
RUNX3	NM_004350.1	CBFA3, AML2, PEBP2A3	runt-related transcription factor 3
S100A12	NM_005621.1	p6, MRP6, CGRP, CAAF1, CAGC, ENRAGE	S100 calcium binding protein A12
S100A7	NM_002963.2	PSOR1, S100A7c	S100 calcium binding protein A7
S100A8	NM_002964.3	CAGA, CFAg, P8, MRP8, 608BAG, CGLA	S100 calcium binding protein A8
S100B	NM_006272.1	S100beta	S100 calcium binding protein B
SAA1	NM_199161.1	SAA, PIG4, TP53I4	serum amyloid A1
SBNO2	NM_014963.2	KIAA0963, FLJ00173, Stno, Sno	strawberry notch homolog 2 (Drosophila)
SELE	NM_000450.2	ELAM1, ELAM, ESEL, CD62E	selectin E
SELL	NR_029467.1	LYAM1, LNHR, LSEL, LAM1, LAM-1, hLHRc, Leu-8, Lyam-1, PLNHR, CD62L	selectin L
SELP1G	NM_001206609.1	PSGL-1, CD162	selectin P ligand
SEMG1	NM_003007.2	SEMG, CT103	semenogelin I
SERPINB2	NM_002575.1	PLANH2, PAI2, HST1201	serpin peptidase inhibitor, clade B (ovalbumin), member 2
SERPING1	NM_000062.2	C1NH, C1IN, C1-INH, HAE1, HAE2	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1
SH2B2	NM_020979.3	APS	SH2B adaptor protein 2
SH2D1A	NM_001114937.2	IMD5, LYP, XLP, MTCP1, DSHP, XLPD, EBVS, SAP	SH2 domain containing 1A
SH2D1B	NM_053282.4	EAT2	SH2 domain containing 1B
SIGIRR	NM_021805.2	TIR8	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain
SIGLEC1	NM_023068.3	SN, SIGLEC-1, CD169, FLJ00051, FLJ00055, FLJ00073, FLJ32150, dj1009E24.1,	sialic acid binding Ig-like lectin 1, sialoadhesin
SLAMF1	NM_003037.2	SLAM, CD150	signaling lymphocytic activation molecule family member 1
SLAMF6	NM_001184714.1	KALI, NTBA, KALIB, Ly108, SF2000, NTB-A, CD352	SLAM family member 6

SLAMF7	NM_021181.3	CRACC, 19A, CS1, CD319	SLAM family member 7
SLC11A1	NM_000578.2	LSH, NRAMP, NRAMP1	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1
SMAD2	NM_005901.5	MADH2, MADR2, JV18-1	SMAD family member 2
SMAD3	NM_005902.3	MADH3, JV15-2, HsT17436	SMAD family member 3
SMPD3	NM_018667.3	NSMASE2	sphingomyelin phosphodiesterase 3, neutral membrane (neutral sphingomyelinase II)
SOCS1	NM_003745.1	SOCS-1, SSI-1, JAB, TIP3, Cish1	suppressor of cytokine signaling 1
SPA17	NM_017425.3	SP17, CT2	sperm autoantigenic protein 17 SIAE (NM_001199922)
SPACA3	NM_173847.3	ALLP17, SLPL1, LYC3, LYZL3, CT54	sperm acrosome associated 3
SPANXB1	NM_032461.2	CT11.2	SPANX family, member B1
SPINK5	NM_006846.3	VAKTI, LEKTI, LETKI, NETS, NS, FLJ21544, FLJ97536, FLJ97596, FLJ99794, DKFZp686K19184	serine peptidase inhibitor, Kazal type 5
SPN	NM_003123.3	LSN, CD43, GPL115	sialophorin
SPO11	NM_198265.1	CT35, SPATA43, TOPVIA	SPO11 meiotic protein covalently bound to DSB homolog (S. cerevisiae)
SPP1	NM_000582.2	BNSP, OPN, BSP1, ETA-1	secreted phosphoprotein 1
SSX1	NM_005635.2	CTS.1	synovial sarcoma, X breakpoint 1
SSX4	NM_005636.3	CTS.4	synovial sarcoma, X breakpoint 4 SSX4B (NM_001040612;NM_001034832)
ST6GAL1	NM_003032.2	SIAT1	ST6 beta-galactosidase alpha-2,6-sialyltransferase 1
STAT1	NM_007315.2	STAT91, ISGF-3	signal transducer and activator of transcription 1, 91kDa
STAT2	NM_005419.2	STAT113	signal transducer and activator of transcription 2, 113kDa
STAT3	NM_139276.2	APRF	signal transducer and activator of transcription 3 (acute-phase response factor)
STAT4	NM_003151.2		signal transducer and activator of transcription 4
STAT5B	NM_012448.3		signal transducer and activator of transcription 5B
STAT6	NM_003153.3	D12S1644, IL-4-STAT	signal transducer and activator of transcription 6, interleukin-4 induced
SYCP1	NM_003176.2	HOM-TE5-14, SCP1, CT8	synaptonemal complex protein 1
SYK	NM_003177.3		spleen tyrosine kinase
SYT17	NM_016524.2		synaptotagmin XVII
TAB1	NM_153497.2	MAP3K7IP1	TGF-beta activated kinase 1/MAP3K7 binding protein 1
TAL1	NM_003189.2	TCLS, SCL, bHLHa17	T-cell acute lymphocytic leukemia 1
TANK	NM_004180.2	TRAF2, I-TRAF	TRAF family member-associated NFKB activator
TAP1	NM_000593.5	ABC2, PSF1, RING4, D6S114E	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
TAP2	NM_000544.3	ABC3, PSF2, RING11, D6S217E	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
TAPBP	NM_003190.4	TAPA	TAP binding protein (tapasin)
TARP	NM_001003799.1	CD3G, TCRG, TCRG1, TCRG2	TCR gamma alternate reading frame protein
TBK1	NM_013254.2	NAK	TANK-binding kinase 1
TBX21	NM_013351.1	TBLYM, T-bet	T-box 21
TCF7	NM_003202.2	TCF-1	transcription factor 7 (T-cell specific, HMG-box)
TFE3	NM_006521.3	TFEA, bHLHe33	transcription factor binding to IGHM enhancer 3
TFEB	NM_007162.2	TCFEB, bHLHe35	transcription factor EB
TFRC	NM_003234.1	CD71, TFR1, p90	transferrin receptor (p90, CD71)
TGFB1	NM_000660.3	TGFB, DPD1, CED, TGFbeta	transforming growth factor, beta 1
TGFB2	NM_003238.2		transforming growth factor, beta 2
THBD	NM_000361.2	CD141	thrombomodulin
THBS1	NM_003246.2	TSP1, THBS, TSP, THBS-1, TSP-1	thrombospondin 1
THY1	NM_006288.2	CD90	Thy-1 cell surface antigen
TICAM1	NM_014261.1	TRIF, TICAM-1, MGC35334, PRVTIRB	toll-like receptor adaptor molecule 1
TICAM2	NM_021649.4	TRAM, TICAM-2, TIRP	toll-like receptor adaptor molecule 2
TIGIT	NM_173799.2	V5IG9, V5TM3, FLJ39873, DKFZp667A205	T cell immunoreceptor with lig and ITIM domains
TIRAP	NM_148910.2	Mal, wyatt	toll-interleukin 1 receptor (TIR) domain containing adaptor protein
TLR1	NM_003263.3	rsc786, KIAA0012, CD281	toll-like receptor 1
TLR10	NM_030956.2	CD290	toll-like receptor 10
TLR2	NM_003264.3	TIL4, CD282	toll-like receptor 2
TLR3	NM_003265.2	CD283	toll-like receptor 3
TLR4	NM_138554.2	hToll, CD284, TLR-4, ARMD10	toll-like receptor 4
TLR5	NM_003268.3	SLEB1, TIL3, FLJ10052, MGC126430, MGC126431	toll-like receptor 5
TLR6	NM_006068.2	CD286	toll-like receptor 6
TLR7	NM_016562.3		toll-like receptor 7
TLR8	NM_016610.2	CD288	toll-like receptor 8
TLR9	NM_017442.2	CD289	toll-like receptor 9
TMEFF2	NM_016192.2	TENB2, HPP1, TR, TPEF, CT120.2	transmembrane protein with EGF-like and two follistatin-like domains 2
TNF	NM_000594.2	TNFA, TNFSF2, DIF, TNF-alpha	tumor necrosis factor
TNFAIP3	NM_006290.2	A20, OTUD7C	tumor necrosis factor, alpha-induced protein 3
TNFRSF10B	NM_003842.3	DRS, KILLER, TRICK2A, TRAIL-R2, TRICKB, CD262	tumor necrosis factor receptor superfamily, member 10b tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain
TNFRSF10C	NM_003841.3	DcR1, TRAILR3, LIT, TRID, CD263	tumor necrosis factor receptor superfamily, member 10c
TNFRSF11A	NM_003839.2	PDB2, LOH18CR1, RANK, CD265, FEO	tumor necrosis factor receptor superfamily, member 11a, NFKB activator
TNFRSF11B	NM_002546.2	OPG, OCIF, TR1	tumor necrosis factor receptor superfamily, member 11b
TNFRSF12A	NM_016639.1	FN14, TweakR, CD266	tumor necrosis factor receptor superfamily, member 12A
TNFRSF13B	NM_012452.2	TACI, CD267	tumor necrosis factor receptor superfamily, member 13B
TNFRSF13C	NM_052945.3	BAFFR, CD268	tumor necrosis factor receptor superfamily, member 13C
TNFRSF14	NM_003820.2	HVEM, ATAR, TR2, LIGHTR, HVEA, CD270	tumor necrosis factor receptor superfamily, member 14
TNFRSF17	NM_001192.2	BCMA, BCM, CD269, TNFRSF13A	tumor necrosis factor receptor superfamily, member 17
TNFRSF18	NM_004195.2	AITR, GITR, CD357	tumor necrosis factor receptor superfamily, member 18
TNFRSF1A	NM_001065.2	TNFR1, TNF-R, TNFAR, TNFR60, TNF-R-I, CD120a, TNF-R55	tumor necrosis factor receptor superfamily, member 1A
TNFRSF1B	NM_001066.2	TNFR2, TNFRB, TNFR80, TNF-R75, TNF-R-II, p75, CD120b	tumor necrosis factor receptor superfamily, member 1B
TNFRSF4	NM_003327.2	TXGP1L, ACT35, OX40, CD134	tumor necrosis factor receptor superfamily, member 4
TNFRSF8	NM_152942.2	CD30, D1S166E, Ki-1	tumor necrosis factor receptor superfamily, member 8
TNFRSF9	NM_001561.4	ILA, CD137, 4-1BB	tumor necrosis factor receptor superfamily, member 9
TNFRSF10	NM_003810.2	TRAIL, Apo-2L, TL2, CD253	tumor necrosis factor (ligand) superfamily, member 10
TNFSF11	NM_003701.2	TRANCE, RANKL, OPG, ODF, CD254	tumor necrosis factor (ligand) superfamily, member 11
TNFSF12	NM_003809.2	TWEAK, DR3LG, APO3L	tumor necrosis factor (ligand) superfamily, member 12
TNFSF13	NM_003808.3	APRIL, CD256	tumor necrosis factor (ligand) superfamily, member 13
TNFSF13B	NM_006573.4	TNFSF20, BAFF, THANK, BLYS, TALL-1, TALL1, CD257	tumor necrosis factor (ligand) superfamily, member 13b
TNFSF14	NM_003807.3	LIGHT, LTg, HVEM-L, CD258	tumor necrosis factor (ligand) superfamily, member 14
TNFSF15	NM_001204344.1	TL1, VEGI, TL1A, VEGI192A, MGC129934, MGC129935	tumor necrosis factor (ligand) superfamily, member 15
TNFSF18	NM_005092.2	AITRL, TL6, hGITRL	tumor necrosis factor (ligand) superfamily, member 18
TNFSF4	NM_003326.2	TXGP1, OX-40L, gp34, CD252	tumor necrosis factor (ligand) superfamily, member 4
TNFSF8	NM_001244.3	CD30LG, CD153	tumor necrosis factor (ligand) superfamily, member 8
TOLLIP	NM_019009.2	IL-1RACPIP	toll interacting protein
TP53	NM_000546.2	p53, LFS1	tumor protein p53
TPSAB1	NM_003294.3	TPSB1, TPS1, TPS2	trypsin alpha/beta 1 TPSB2 (NM_024164)
TPTE	NM_199259.2	PTEN2, CT44	transmembrane phosphatase with tensin homology
TRAF2	NM_021138.3	TRAP3	TNF receptor-associated factor 2
TRAF3	NM_145725.1	CAP-1, CD40bp, CRAF1, LAP1	TNF receptor-associated factor 3
TRAF6	NM_145803.1	RNF85	TNF receptor-associated factor 6, E3 ubiquitin protein ligase
TREM1	NM_018643.3	TREM-1, CD354	triggering receptor expressed on myeloid cells 1
TREM2	NM_018965.3	TREM-2, Trem2a, Trem2b, Trem2c	triggering receptor expressed on myeloid cells 2
TTK	NM_003318.3	MPS1, MPS1L1, CT96, MPH1	TTK protein kinase
TXK	NM_003328.1	PTK4, TKL, PSCTK5, BTKL, RLK	TXK tyrosine kinase
TXNIP	NM_006472.1	VDUP1, ESTO1027, HHCPA78, THIF	thioredoxin interacting protein
TYK2	NM_003331.3	JTK1	tyrosine kinase 2
UBC	NM_021009.3		ubiquitin C
ULBP2	NM_025217.2	RAET1H	UL16 binding protein 2
USP9Y	NM_004654.3	DFFRY	ubiquitin specific peptidase 9, Y-linked
VCAM1	NM_001078.3	CD106	vascular cell adhesion molecule 1
VEGFA	NM_001025366.1	VEGF, VEGF-A, VPF	vascular endothelial growth factor A
VEGFC	NM_005429.2	VRP	vascular endothelial growth factor C
XCL2	NM_003175.3	SCYC2, SCM-1b	chemokine (C motif) ligand 2 XCL1 (NM_002995)
XCR1	NM_005283.2	GP95, CXCR1	chemokine (C motif) receptor 1
YTHDF2	NM_001172828.1	HGRG8, NY-REN-2	YTH domain family, member 2
ZAP70	NM_001079.3	SRK, ZAP-70, STD	zeta-chain (TCR) associated protein kinase 70kDa

ZNF205 NM\_001031686.1 ZNF210, Zfp13 zinc finger protein 205

Internal Reference Genes		
ABCF1	NM_001090.2	ABC50, EST123147
AGK	NM_018238.3	MULK, FLJ10842
ALAS1	NM_000688.4	ALAS3, ALAS
AMMECR1L	NM_001199140.1	MGC4268
CC2D1B	NM_032449.2	KIAA1836
CNOT10	NM_001256741.1	FLJ12890, FLJ13165
CNOT4	NM_001190848.1	NOT4, CLONE243, NOT4H
COG7	NM_153603.3	
DDX50	NM_024045.1	GU2, MGC3199, GUB, RH-II/GuB
DHX16	NM_001164239.1	DDX16, DBP2, Prp2, PRPF2
DNAJC14	NM_032364.5	DNAJ, DRIP78, HDJ3, LIP6, FLJ32792
EDC3	NM_001142443.1	YDC, LSM16, FLJ21128, hYjeF, N2-15q23, YJEFN2
EIF2B4	NM_172195.3	EIF2delta, EIF-2B, DKFZP586I0119, EIF2B
ERCC3	NM_000122.1	XPB, BTF2, RAD25, TFIIH, GTF2H
FCF1	NM_015962.4	C14orf111, CGI-35, Bka, UTP24
G6PD	NM_000402.2	G6PD1
GPATCH3	NM_022078.2	GPATCH3, FLJ12455
GUSB	NM_000181.1	
HDAC3	NM_003883.2	RPD3, HD3, RPD3-2
HPRT1	NM_000194.1	HPRT, HGPRT
MRP55	NM_031902.3	MRP-S5, S5mt
MTMR14	NM_022485.3	C3orf29, FLJ22405, FLJ90311, hJumpy, hEDTP
NOL7	NM_016167.3	C6orf90, PQBP3, NOP27, RARG-1, dJ223E5.2
NUBP1	NM_001278506.1	NBP1, NBP35
POLR2A	NM_000937.2	POLR2, POLRA, RPB1
PPIA	NM_021130.2	CYPA
PRPF38A	NM_032864.3	FLJ14936, Prp38
SAP130	NM_024545.3	FLJ12761
SDHA	NM_004168.1	SDH2, FP, SDHF
SF3A3	NM_006802.2	SF3a60, SAP61, PRP9, PRPF9
TBP	NM_001172085.1	GTF2D1, SCA17, TFIID
TLK2	NM_006852.2	PKU-ALPHA, MGC44450
TMUB2	NM_024107.2	MGC3123
TRIM39	NM_021253.3	RNF23
TUBB	NM_178014.2	OK/SW-cl.56, MGC16435, M40, Tubb5
USP39	NM_001256725.1	SAD1, CGI-21, SNRNP65
ZC3H14	NM_001160103.1	FLJ11806, UKp68, NY-REN-37
ZKSCAN5	NM_014569.3	ZFP95, ZNF914, ZSCAN37
ZNF143	NM_003442.5	SBF, pHZ-1, STAF
ZNF346	NM_012279.2	JAZ, Zfp346
		ATP-binding cassette, sub-family F (GCN20), member 1
		acylglycerol kinase
		aminolevulinatase, delta-, synthase 1
		AMME chromosomal region gene 1-like
		coiled-coil and C2 domain containing 1B
		CCR4-NOT transcription complex, subunit 10
		CCR4-NOT transcription complex, subunit 4
		component of oligomeric golgi complex 7
		DEAD (Asp-Glu-Ala-Asp) box polypeptide 50
		DEAH (Asp-Glu-Ala-His) box polypeptide 16
		DnaI (Hsp40) homolog, subfamily C, member 14
		enhancer of mRNA decapping 3 homolog (S. cerevisiae)
		eukaryotic translation initiation factor 2B, subunit 4 delta, 67kDa
		excision repair cross-complementing rodent repair deficiency, complementation group 3
		FCF1 small subunit (SSU) processome component homolog (S. cerevisiae)
		glucose-6-phosphate dehydrogenase
		G patch domain containing 3
		glucuronidase, beta
		histone deacetylase 3
		hypoxanthine phosphoribosyltransferase 1
		mitochondrial ribosomal protein S5
		myotubularin related protein 14
		nucleolar protein 7, 27kDa
		nucleotide binding protein 1
		polymerase (RNA) II (DNA directed) polypeptide A, 220kDa
		peptidylprolyl isomerase A (cyclophilin A)
		PRP38 pre-mRNA processing factor 38 (yeast) domain containing A
		Sin3A-associated protein, 130kDa
		succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
		splicing factor 3a, subunit 3, 60kDa
		TATA box binding protein
		tousled-like kinase 2
		transmembrane and ubiquitin-like domain containing 2
		tripartite motif containing 39
		tubulin, beta class I
		ubiquitin specific peptidase 39
		zinc finger CCH-type containing 14
		zinc finger with KRAB and SCAN domains 5
		zinc finger protein 143
		zinc finger protein 346