

nCounter® Human Immunology V2 Panel - Gene and Probe Details

Official Symbol	Accession	Alias or Previous Symbol	Official Full Name
ABCB1	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
AHR	NM_001621.3	bHLHe76	aryl hydrocarbon receptor
AICDA	NM_020661.1	HIGM2, CDA2, ARP2, AID	activation-induced cytidine deaminase
AIRE	NM_000383.2	APECED, PGA1, APS1	autoimmune regulator
APP	NM_000484.3	AD1	amyloid beta (A4) precursor protein
ARG1	NM_000045.2		arginase, liver
ARG2	NM_001172.3		arginase, type II
ARHGDB	NM_001175.4	RAP1GN1, GDIA2, GDID4, Ly-GDI, RhoGDI2	Rho GDP dissociation inhibitor (GDI) beta
ATG10	NM_001131028.1	APG10L, DKFZP586I0418, FU13954	ATG10 autophagy related 10 homolog (S. cerevisiae)
ATG12	NM_004707.2	APG12L, APG12	ATG12 autophagy related 12 homolog (S. cerevisiae)
ATG16L1	NM_198890.2	APG16L, ATG16L, WDR30, FU10035, ATG16A	ATG16 autophagy related 16-like 1 (S. cerevisiae)
ATG5	NM_004849.2	APG5L, ASP, APG5, hAPG5	ATG5 autophagy related 5 homolog (S. cerevisiae)
ATG7	NM_001136031.2	APG7L, GSA7, DKFZp434N0735	ATG7 autophagy related 7 homolog (S. cerevisiae)
ATM	NM_000051.3	ATA, ATDC, ATC, ATD, TEL1, TELO1	ataxia telangiectasia mutated
B2M	NM_004048.2		beta-2-microglobulin
B3GAT1	NM_018644.3	CD57, LEU7, GlcAT-P, HNK-1, NK-1	beta-1,3-glucuronyltransferase 1 (glucuronosyltransferase P)
BATF	NM_006399.3	B-ATF, SFA-2, BATF1	basic leucine zipper transcription factor, ATF-like
BATF3	NM_018664.2	JUNDM1, SNFT, JDP1	basic leucine zipper transcription factor, ATF-like 3
BAX	NM_138761.3	BCL2L4	BCL2-associated X protein
BCAP31	NM_005745.7	DXS1357E, BAP31, 6C6-Ag, CDM	B-cell receptor-associated protein 31
BCL10	NM_003921.2	CARMEN, CIPER, mE10, c-E10, CLAP	B-cell CLL/lymphoma 10
BCL2	NM_000657.2	Bcl-2	B-cell CLL/lymphoma 2
BCL2L11	NM_138621.4	BOD, Biml, BimEL, BIM	BCL2-like 11 (apoptosis facilitator)
BCL3	NM_005178.2	D19S37, BCL4	B-cell CLL/lymphoma 3
BCL6	NM_001706.2	ZNF51, ZBTB27, LAZ3, BCL5, BCL6A	B-cell CLL/lymphoma 6
BID	NM_001196.2		BH3 interacting domain death agonist
BLNK	NM_013314.2	SLP65, Ly57, SLP-65, BLNK-s	B-cell linker
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_000061.1	AGMX1, IMD1, ATK, XLA, P5CTK1	Brunton agammaglobulinemia tyrosine kinase
BTLA	NM_181780.2	BTLA1, CD272	B and T lymphocyte associated
C14orf166	NM_016039.2	CGI-99, RLLM1	chromosome 14 open reading frame 166
C1QA	NM_015991.2		complement component 1, q subcomponent, A chain
C1QB	NM_000491.3		complement component 1, q subcomponent, B chain
C1QBPA	NM_001212.3	HABP1, gC1Q-R, gC1qR, 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	complement component 3
C4A/B	NM_007293.2	CPAMD2, C4S, CO4, C4, C4A3, C4A2, C4A4, C4A6, C4B, RG/CPAMD3, C4F, CO4, C4B1, C4B3, CH	complement component 4A (Rodgers blood group)/complement component 4B (Chido blood group)
C4BPA	NM_000715.3	C4BP	complement component 4 binding protein, alpha
C5	NM_001735.2	CPAMD4	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
CARD9	NM_052813.4		caspace recruitment domain family, member 9
CASP1	NM_001223.3	IL1BC, ICE	caspace 1, apoptosis-related cysteine peptidase (interleukin 1, beta, convertase)
CASP10	NM_032977.3	MCH4	caspace 10, apoptosis-related cysteine peptidase
CASP2	NM_032982.2	NEDD2, ICH1	caspace 2, 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
CCBP2	NM_001296.3	CMKBR9, CCR10, D6, CCR9	chemokine binding protein 2
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
CCL15	NM_032965.3	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
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
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, MPF1-1, MIP-3, Ckb8	chemokine (C-C motif) ligand 23
CCL24	NM_002991.2	SCYA24, Ckb-6, MPF1-2, eotaxin-2, MPF2	chemokine (C-C motif) ligand 24
CCL26	NM_006072.4	SCYA26, MIP-4alpha, eotaxin-3, IMAC, MIP-4a, TSC-1	chemokine (C-C motif) ligand 26
CCL3	NM_002983.2	GOS19-1, LD78ALPHA, MIP-1-alpha	chemokine (C-C motif) ligand 3
CCL4	NM_002984.2	MIP-1-beta, Act-2, AT744.1	chemokine (C-C motif) ligand 4
CCL5	NM_002985.2	D17S136E, 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
CCR10	NM_016602.2	GPR2	chemokine (C-C motif) receptor 10
CCR2	NM_001123041.2	CMKBR2, CC-CKR-2, CKR2, MCP-1-R, CD192, FU78302	chemokine (C-C motif) receptor 2
CCR5	NM_000579.1	CMKBR5, CKR-5, CC-CKR-5, CKR5, CD195, IDDM22	chemokine (C-C motif) receptor 5
CCR6	NM_031409.2	STRL22, CKR-L3, GPR-CY4, CMKBR6, GPR29, DRY-6, DCR2, BN-1, CD196	chemokine (C-C motif) receptor 6
CCR7	NM_001838.2	CMKBR7, EB1, BLR2, CDw197, CD197	chemokine (C-C motif) receptor 7
CCR8	NM_005201.2	CMKBR2L, CMKBR8, CY6, TER1, CKR-L1, GPR-CY6, CDw198	chemokine (C-C motif) receptor 8
CCR11	NM_016557.2	CCR11, CCBP2, VSHK1, CCX-CKR, PPR1	chemokine (C-C motif) receptor-like 1
CCR12	NM_003965.4	HCR, CRAM-B, CKRX, CRAM-A	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
CD19	NM_001770.4		CD19 molecule
CD1A	NM_001763.2	CD1	CD1a molecule
CD1D	NM_001766.3		CD1d molecule
CD2	NM_001767.3	SRBC	CD2 molecule
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	CD276 molecule
CD28	NM_001243078.1		CD28 molecule
CD34	NM_001025109.1		CD34 molecule

CD36	NM_001001548.2	SCARB3, GPIV, FAT, GP4, GP3B	CD36 molecule (thrombospondin receptor)
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
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, TRAA2, MGC26544, TLX	CD46 molecule, complement regulatory protein
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, EJ16, EJ30, EL32, G344, p18-20	CD59 molecule, complement regulatory protein
CD6	NM_006725.3	TP120	CD6 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	DHLG	CD74 molecule, major histocompatibility complex, class II invariant chain
CD79A	NM_001783.3	JGA, 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
CD82	NM_002231.3	ST6, KAI1, R2, IA4, TSPAN27	CD82 molecule
CD83	NM_004233.3	HB15, BL11	CD83 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
CDH5	NM_001795.3	784, CD144	cadherin 5, type 2 (vascular endothelium)
CDKN1A	NM_000389.2	CDKN1, P21, CIP1, WAF1, SDI1, 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	TCF5, 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)
CFH	NM_001014975.2	HF, HF1, HF2, HUS, FHL1, ARMS1	complement factor H
CFI	NM_000204.3	IF, FI, C3b-INA, KAF	complement factor I
CFP	NM_002621.2	PF	complement factor properdin
CHUK	NM_001278.3	TCF16, IKK1, IKK-alpha, IKBKA, NFKB1KA, IKKA	conserved helix-loop-helix ubiquitously kinase
CIITA	NM_000246.3	MHC2TA, C2TA, NLRA	class II, major histocompatibility complex, transactivator
CISH	NM_145071.2	CIS, G18, CIS-1, SOCS	cytokine inducible SH2-containing protein
CLEC4A	NM_194448.2	CLECSF6, DCIR, DDB27	C-type lectin domain family 4, member A
CLEC4E	NM_014358.2	CLECSF9, mindle	C-type lectin domain family 4, member E
CLEC5A	NM_013252.2	CLECSF5, MDL-1	C-type lectin domain family 5, member A
CLEC6A	NM_001007033.1	CLECSF10, dectin-2	C-type lectin domain family 6, member A
CLEC7A	NM_197954.2	CLECSF12, 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	clusterin
CMKLR1	NM_004072.1		chemokine-like receptor 1
CR1	NM_000651.4	CD35, KN	complement component (3b/4b) receptor 1 (Knops blood group)
CR2	NM_001006658.1	CD21	complement component (3d/Epstein Barr virus) receptor 2
CRADD	NM_003805.3	RAIDD	CASP2 and RIPK1 domain containing adaptor with death domain
CSF1	NM_000757.4	M-CSF, MCSF, 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, IL3RB, CD131	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
CSF3R	NM_156038.2	CD114, GCSFR	colony stimulating factor 3 receptor (granulocyte)
CTLA4_all (common probe)	NM_005214.3	CELIAC3, CD152, CD, GSE, CD28, ICOS	cytotoxic T-lymphocyte-associated protein 4
CTLA4-TM (membrane-bound form)	NM_005214.3	CELIAC3, CD152, CD, GSE, CD28, ICOS	cytotoxic T-lymphocyte-associated protein 4
sCTLA4 (soluble form)	NM_001037631.1	CELIAC3, CD152, CD, GSE, CD28, ICOS	cytotoxic T-lymphocyte-associated protein 4
CTNNB1	NM_001098210.1	CTNNB, beta-catenin	catenin (cadherin-associated protein), beta 1, 88kDa
CTSC	NM_001814.4	PLS, PALS, DPP1	cathepsin C
CTSG	NM_001911.2	CG	cathepsin G
CTSS	NM_004079.3		cathepsin S
CUL9	NM_015089.2	H7AP1, KIAA0708, PARC	cullin 9
CX3CL1	NM_002996.3	SCYD1, NTN, CX3kline, ABCD-3, CX3C, CX3C, fractalkine, neurotactin	chemokine (C-X3-C motif) ligand 1
CX3CR1	NM_001337.3	GPR13, CMKBR1, CMKDR1, V28, CCR11	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, gIP-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, TP4R1	chemokine (C-X-C motif) ligand 12
CXCL13	NM_006419.2	SCYB13, BLC, BCA-1, BLR1L, ANGIE, ANGIE2	chemokine (C-X-C motif) ligand 13
CXCL2	NM_002089.3	GRO2, SCYB2, GROb, MIP-2a, MGSA-b, CINC-2a	chemokine (C-X-C motif) ligand 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
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
DEFB1	NM_005218.3	HBD-1, DEFB-1, DEFB101, HBD1	defensin, beta 1
DEFB103A	NM_001081551.2	HBD-3, HBP-3, HBD3, HBP3, DEFB-3	defensin, beta 103A
DEFB103B	NM_018661.3		defensin, beta 103B
DEFB4A	NM_004942.2	SAP1, HBD-2, DEFB-2	defensin, beta 4A
DPP4	NM_001935.3	CD26, ADCP2, DPPIV	dipeptidyl-peptidase 4
DUSP4	NM_057158.2	HVH2, MKP-2, TYP	dual specificity phosphatase 4
EBI3	NM_005755.2		Epstein-Barr virus induced 3
EDNRB	NM_003991.2	HSCR2, HSCR, ETB	endothelin receptor type B
EGR1	NM_001964.2	TIS8, GOS30, NGFI-A, KROX-24, ZIF-268, AT225, ZNF225	early growth response 1
EGR2	NM_000399.3	KROX20	early growth response 2
ENTPD1	NM_001098175.1	CD39, NTPDase-1, ATPDase	ectonucleoside triphosphate diphosphohydrolase 1
EOMES	NM_005442.2	TBR2	eomesodermin
ETS1	NM_005238.3	EWSR2, FLJ10768, ETS-1	v-ets erythroblastosis virus E26 oncogene homolog 1 (avian)
FADD	NM_003824.2	MORT1, GIG3	Fas (TNFRSF6)-associated via death domain
FAS	NM_000043.3	FAS1, APT1, TNFRSF6, CD95, APO-1	Fas (TNF receptor superfamily, member 6)
FCAR	NM_133280.1	CD89	Fc fragment of IgA, receptor for
FCER1A	NM_002001.2	FCE1A	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
FCGR1A/B	NM_000566.3	CD64, CD64A/CD64B	Fc fragment of IgG, high affinity Ia, receptor (CD64)/Fc fragment of IgG, high affinity Ib, receptor (CD64)
FCGR2A	NM_021642.3	FCG2, FCGR2A1, FCGR2, CD32, CD32A, IGR2, CDw32	Fc fragment of IgG, low affinity IIa, receptor (CD32)

FCGR2A/C	NM_201563.4	FCG2, FCGR2A1, FCGR2, CD32, CD32A, IGF2R, CDw32/hFCR11-C, CD32C	Fc fragment of IgG, low affinity IIa, receptor (CD32)/Fc fragment of IgG, low affinity IIc, receptor for (CD32)
FCGR2B	NM_001002273.1	FCG2, FCGR2, CD32, CD32B	Fc fragment of IgG, low affinity IIb, receptor (CD32)
FCGR3A/B	NM_000570.4	CD16, CD16a/CD16b	Fc fragment of IgG, low affinity IIIa, receptor (CD16a)/Fc fragment of IgG, low affinity IIIb, receptor (CD16a)
FCGR5	NM_004107.4	FCRN, alpha-chain	Fc fragment of IgG, receptor, transporter, alpha
FKBP5	NM_001145775.1	FKBP51, FKBP54, PPlase, P54, Ptg-10	FK506 binding protein 5
FN1	NM_212482.1	MSF, CIG, LETS, GFND2, FINC	fibronectin 1
FOXp3	NM_014009.3	IPeX, JM2, XPID, AID, PIDX, DIETER, SCURFIN	forkhead box p3
FYN	NM_002037.3	SYN, SLK, MGC45350	FYN oncogene related to SRC, FGR, YES
GATA3	NM_001002295.1	HDR	GATA binding protein 3
GBP1	NM_002053.1		guanylate binding protein 1, interferon-inducible
GBP5	NM_052942.3		guanylate binding protein 5
GF11	NM_005263.2	ZNF163	growth factor independent 1 transcription repressor
GNLY	NM_006433.2	LAG2, NKG5, LAG-2, D2569E, TLA519	granulysin
GP1BB	NM_000407.4	CD42c	glycoprotein Ib (platelet), beta polypeptide
GPI	NM_000175.2	AMF, NLK	glucose-6-phosphate isomerase
GPR183	NM_004951.3	EBI2	G protein-coupled receptor 183
GZMA	NM_006144.2	HFSV, CTLA3	granzyme A (granzyme 1, cytotoxic T-lymphocyte-associated serine esterase 3)
GZMB	NM_004131.3	CTLA1, CSPB, CCP1, CGL-1, CSP-B, CGL1, CTSGL1, HLP, SECT	granzyme B (granzyme 2, cytotoxic T-lymphocyte-associated serine esterase 1)
GZMK	NM_002104.2	TRYP2, PRSS	granzyme K (granzyme 3; trypstatin II)
HAMP	NM_021175.2	LEAP-1, HEPC, HFE2B, LEAP1	hepcidin antimicrobial peptide
HAVCR2	NM_032782.3	Tim-3, TIM3, FUJ14428, TIMD3	hepatitis A virus cellular receptor 2
HFE	NM_139011.2	HLA-H	hemochromatosis
HLA-A	NM_002116.5		major histocompatibility complex, class I, A
HLA-B	NM_005514.6		major histocompatibility complex, class I, B
HLA-C	NM_002117.4		major histocompatibility complex, class I, C
HLA-DMA	NM_006120.3	D65222E, RING6	major histocompatibility complex, class II, DM alpha
HLA-DMB	NM_002118.3	D65221E, 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	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-DRB1	NM_002124.2		major histocompatibility complex, class II, DR beta 1
HLA-DRB3	NM_022555.3		major histocompatibility complex, class II, DR beta 3
HRAS	NM_005343.2	HRAS1	v-Ha-ras Harvey rat sarcoma viral oncogene homolog
ICAM1	NM_000201.2	BB2, 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)
ICAM5	NM_003259.3	TLCN, TLN	intercellular adhesion molecule 5, telencephalin
ICOS	NM_012092.2	AILIM, 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
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
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 (9-27)
IFNA1/13	NM_024013.1	IFNA@, IFL, IFN, IFN-ALPHA, IFNA13, IFN-alphaD	interferon, alpha 1/interferon, alpha 13
IFNA2	NM_000605.3	IFNA, IFN-alphaA	interferon, alpha 2
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
IGF2R	NM_000876.1	CD222, MPRI, MPR1, CIMPR, M6P-R	insulin-like growth factor 2 receptor
IKBKAP	NM_003640.3	DYS, IKAP, TOT1, ELP1, IKI3	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein
IKKBK	NM_001556.1	IKK2, NFKBKB, IKK-beta, IKKB	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
IKKKE	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	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma
IKZF1	NM_006060.3	ZNFN1A1, hik-1, Lyf-1, Hs.54452, IKAROS	IKAROS family zinc finger 1 (Ikaros)
IKZF2	NM_016260.2	ZNFN1A2, Helios	IKAROS family zinc finger 2 (Helios)
IKZF3	NM_183232.2	ZNFN1A3, Aiolos	IKAROS family zinc finger 3 (Aiolos)
IL10	NM_000572.2	CSIF, TGIF, IL10A, IL-10	interleukin 10
IL10RA	NM_001558.2	IL10R, HIL-10R, CDW210A, CD210a	interleukin 10 receptor, alpha
IL11RA	NM_147162.1		interleukin 11 receptor, alpha
IL12A	NM_000882.2	NKSF1, CLMF, IL-12A, p35, NF5K	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
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
IL15	NM_172174.1	IL-15, MGC9721	interleukin 15
IL16	NM_004513.4	LCF, IL-16, prIL-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, ML1	interleukin 17F
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	AcPI, 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, D2S1473, CD121A	interleukin 1 receptor, type I
IL1R2	NM_173343.1	IL1RB, CD121b	interleukin 1 receptor, type II
IL1RAP	NM_002182.2	IL-1RAcP, IL1R3, C3orf13	interleukin 1 receptor accessory protein
IL1RL1	NM_016232.4	ST2, FIT-1, ST2L, ST2V, DERA, T1, IL133R	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
IL20	NM_018724.3	ZCYTO10, IL10D, IL-20	interleukin 20
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
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
IL26	NM_018402.1	AK155, IL-26	interleukin 26
IL27	NM_145659.3	IL30, IL-27, p28, IL27p28, IL-27A, IL27A, MGC71873	interleukin 27
IL28A	NM_172138.1	IL-28A, IFNL2	interleukin 28A (interferon, lambda 2)
IL28A/B	NM_172139.2	IL-28A, IFNL2/IL-28B, IFNL3, IL28C	interleukin 28A (interferon, lambda 2)/interleukin 28B (interferon, lambda 3)
IL29	NM_172140.1	IL-29, IFNL1	interleukin 29 (interferon, lambda 1)

IL2RA	NM_000417.1	IL2R, CD25	interleukin 2 receptor, alpha
IL2RB	NM_000878.2	IL15RB, CD122	interleukin 2 receptor, beta
IL2RG	NM_000206.1	SCIDX1, IMD4, CDX, CD132	interleukin 2 receptor, gamma
IL3	NM_000588.3	IL-3, MULTI-CSF, MCGF, MGC79398, MGC79399	interleukin 3 (colony-stimulating factor, multiple)
IL32	NM_001012633.1	NK4, TAIF, TAIFB, TAIFD	interleukin 32
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)
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	SCYB8, LUCT, LECT, MDNCF, TSG-1, CXCL8, IL-8, NAP-1, 3-10C, MONAP, AMCF-I, LYNAP, NAF, b-ENAP, GCP-1, K60, GCP1, NAP1	interleukin 8
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
IRAK1	NM_001569.3	IRAK, pelle	interleukin-1 receptor-associated kinase 1
IRAK2	NM_001570.3		interleukin-1 receptor-associated kinase 2
IRAK3	NM_007199.1	IRAK-M	interleukin-1 receptor-associated kinase 3
IRAK4	NM_016123.1	NY-REN-64	interleukin-1 receptor-associated kinase 4
IRF1	NM_002198.1	MAR	interferon regulatory factor 1
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
ITGA2B	NM_000419.3	GP2B, CD41B, CD41	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	FNBR, MSK12, MDF2, CD29, GPIIA	integrin, beta 1 (fibronectin receptor, beta polypeptide, antigen CD29 includes MDF2, MSK12)
ITGB2	NM_000211.2	CD18, MFI7, LFA-1, MAC-1	integrin, beta 2 (complement component 3 receptor 3 and 4 subunit)
ITLN1	NM_017625.2	ITLN, FLJ20022, LFR, HL-1, hintL	intelectin 1 (galactofuranose binding)
ITLN2	NM_080878.2	HL-2	intelectin 2
JAK1	NM_002227.1	JAK1B, JAK1A, JTK3	Janus kinase 1
JAK2	NM_004972.2	JTK10	Janus kinase 2
JAK3	NM_000215.2	L-JAK, JAKL, LIAK, JAK3_HUMAN, JAK-3	Janus kinase 3
KCNJ2	NM_000891.2	Kir2.1, IRK1	potassium inwardly-rectifying channel, subfamily J, member 2
KIR_Activating_Subgroup_1	NM_001083539.1	KIR3DS1,KIR2DS1,KIR2DS2,KIR2DS4	killer cell immunoglobulin-like receptor
KIR_Activating_Subgroup_2	NM_014512.1	KIR2DS1,KIR2DS2,KIR2DS3,KIR2DS4&KIR2DS5	killer cell immunoglobulin-like receptor
KIR_Inhibiting_Subgroup_1	NM_014218.2	KIR2DL1,KIR2DL2,KIR2DL4,KIR2DL5,KIR3DL1&KIR3DL3	killer cell immunoglobulin-like receptor
KIR_Inhibiting_Subgroup_2	NM_014511.3	KIR2DL3,KIR2DL4,KIR2DL5&KIR3DL3,KIR2DL1,KIR2DL2,KIR3DL1,KIR3DL2	killer cell immunoglobulin-like receptor
KIR3DL1	NM_013289.2	cl-2, NKB1, cl-11, nkat3, NKB1B, AMB11, CD158e1/2, CD158e1, CD158e2	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1
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
KLRAP1	NR_028045.1	KLRA1, Ly49, LY49L	killer cell lectin-like receptor subfamily A pseudogene 1
KLRB1	NM_002258.2	NKR, CD161, NKR-P1, NKR-P1A, hNKR-P1A, CLEC5B	killer cell lectin-like receptor subfamily B, member 1
KLRC1	NM_002259.3	NKG2, NKG2-A, NKG2-B, CD159a	killer cell lectin-like receptor subfamily C, member 1
KLRC2	NM_002260.3	NKG2-C, CD159c	killer cell lectin-like receptor subfamily C, member 2
KLRC3	NM_007333.2	NKG2-E	killer cell lectin-like receptor subfamily C, member 3
KLRC4	NM_013431.2	NKG2-F	killer cell lectin-like receptor subfamily C, member 4
KLRD1	NM_002262.3	CD94	killer cell lectin-like receptor subfamily D, member 1
KLRF1	NM_016523.1	CLEC5C, Nkp80	killer cell lectin-like receptor subfamily F, member 1
KLRF2	NM_001190765.1	Nkp65	killer cell lectin-like receptor subfamily F, member 2
KLRG1	NM_005810.3	MAFA, 2F1, MAFA-L, CLEC15A	killer cell lectin-like receptor subfamily G, member 1
KLRG2	NM_198508.2	FLJ44186, CLEC15B	killer cell lectin-like receptor subfamily G, member 2
KLRK1	NM_007360.1	NKG2D, KLR, NKG2-D, CD314	killer cell lectin-like receptor subfamily K, member 1
LAG3	NM_002286.5	CD223	lymphocyte-activation gene 3
LAI1	NM_002287.3	CD305	leukocyte-associated immunoglobulin-like receptor 1
LAMP3	NM_014398.3	LAMP, TSC403, DC-LAMP, DCLAMP, CD208	lysosomal-associated membrane protein 3
LCK	NM_005356.2		lymphocyte-specific protein tyrosine kinase
LCP2	NM_005565.3	SLP76, SLP-76	lymphocyte cytosolic protein 2 (SH2 domain containing leukocyte protein of 76kDa)
LEF1	NM_016269.3	TCF1ALPHA, TCF10, TCF7L3	lymphoid enhancer-binding factor 1
LGALS3	NM_001177388.1	LGALS2, MAC-2, GALIG	lectin, galactoside-binding, soluble, 3
LIF	NM_002309.3	CDF, DIA, HILDA	leukemia inhibitory factor (cholinergic differentiation factor)
LILRA1	NM_006863.1	LIR-6, CD85i, LIR6	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 1
LILRA2	NM_006866.2	LIR-7, ILT1, CD85h, LIR7	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 2
LILRA3	NM_006865.3	LIR-4, HM43, ILT6, HM31, LIR4, CD85e	leukocyte immunoglobulin-like receptor, subfamily A (without TM domain), member 3
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
LILRA6	NM_024318.2	LILRB6, ILT8, CD85b	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 6
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
LILRB4	NM_001081438.1	LIR-5, ILT3, HM18, LIR5, CD85k	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 4
LILRB5	NM_001081442.1	LIR-8, LIR8, CD85c	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 5
LITAF	NM_004862.3	PIG7, SIMPLE, FLJ38636, TP5317	lipopolysaccharide-induced TNF factor
LTA	NM_000595.2	TNFB, TNFSF1, LT	lymphotoxin alpha (TNF superfamily, member 1)
LTB4R	NM_181657.3	P2RV7, GPR16, CMKRL1, BLTR, P2V7, LTB4R1	leukotriene B4 receptor
LTB4R2	NM_019839.4	BLTR2, BLT2, JULF2, NOP9	leukotriene B4 receptor 2
LTBR	NM_002342.1	D125370, TNFCR, TNFR-RP, TNFR2-RP, TNF-R-III, TNFRSF3	lymphotoxin beta receptor (TNFR superfamily, member 3)
LTFF	NM_002343.2	HLF2	lactotransferrin
LY96	NM_015364.2	MD-2	lymphocyte antigen 96
MAF	NM_005360.4	c-MAF	v-maf musculoaponeurotic fibrosarcoma oncogene homolog (avian)
MALT1	NM_006785.2	MLT	mucosa associated lymphoid tissue lymphoma translocation gene 1
MAP4K1	NM_007181.3	HPK1	mitogen-activated protein kinase kinase kinase 1
MAP4K2	NM_004579.2	RAB8IP, GCK, BL44	mitogen-activated protein kinase kinase kinase 2
MAP4K4	NM_004834.3	HGK, NIK, FLH21957	mitogen-activated protein kinase kinase kinase 4
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
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
MBL2	NM_000242.2	MBL, COLEC1	mannose-binding lectin (protein C) 2, soluble
MBP	NM_002385.2		myelin basic protein
MCL1	NM_021960.3	BCL2L3, Mcl-1	myeloid cell leukemia sequence 1 (BCL2-related)
MIF	NM_002415.1	GIF	macrophage migration inhibitory factor (glycosylation-inhibiting factor)
MME	NM_000902.2	CALLA, CD10, NEP	membrane metallo-endopeptidase
MR1	NM_001531.2	HLALS	major histocompatibility complex, class I-related
MRC1	NM_002438.2	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
MSR1	NM_002445.3	SCARA1, CD204	macrophage scavenger receptor 1
MUC1	NM_001018017.1	PUM, CD227, PEM	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
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
NFIL3	NM_005384.2	IL3BP1, E4BP4, NFIL3A, NF-IL3A	nuclear factor, interleukin 3 regulated
NFKB1	NM_003998.2	KBF1, p105, NFKB-p50, p50, NF-kappaB, NfkappaB	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
NFKB2	NM_002502.2	LYT-10, p52	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)
NFKBIA	NM_020529.1	NFKB1, IKBA, MAD-3, IkkappaBalpha	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
NFKBIZ	NM_001005474.1	MAIL, FLJ34463	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta
NLRP3	NM_001079821.2	C1orf7, CIAS1, AGTAVPR1, 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, NLR2	nucleotide-binding oligomerization domain containing 2
NOS2	NM_000625.4	NOS2A, iNOS, NOS, HEP-NOS	nitric oxide synthase 2, inducible
NOTCH1	NM_017617.3	TAN1	notch 1
NOTCH2	NM_024408.3		notch 2
NT5E	NM_002526.2	NTS, CD73, eN, eNT	5'-nucleotidase, ecto (CD73)
PAX5	NM_016734.1	BSAP	paired box 5
PDCD1	NM_005018.1	CD279, PD1	programmed cell death 1
PDCD1LG2	NM_025239.3	PD-L2, Btdc, PDL2, ba574F11.2, CD273, B7-DC	programmed cell death 1 ligand 2
PDCD2	NM_144781.2	ZMYND7, RP8	programmed cell death 2
PDGFB	NM_033016.2	SIS, SSV	platelet-derived growth factor beta polypeptide
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
PIGR	NM_002644.2		polymeric immunoglobulin receptor
PLA2G2A	NM_000300.2	PLA2B, PLA2L	phospholipase A2, group IIA (platelets, synovial fluid)
PLA2G2E	NM_014589.1		phospholipase A2, group IIE
PLAU	NM_002658.2	URK, UPA	plasminogen activator, urokinase
PLAUR	NM_001005376.1	URKR, UPAR, CD87	plasminogen activator, urokinase receptor
PML	NM_002675.3	MYL, TRIM19, RNF71	promyelocytic leukemia
POU2F2	NM_002698.2	OTF2, 40818	POU class 2 homeobox 2
PPARG	NM_015869.3	PPARG1, PPARG2, NR1C3, PPARgamma	peroxisome proliferator-activated receptor gamma
PPBP	NM_002704.2	CTAPII, NAP-2	pro-platelet basic protein (chemokine (C-X-C motif) ligand 7)
PRDM1	NM_001198.3	BLIMP1, PRDI-BF1	PR domain containing 1, with ZNF domain
PRF1	NM_005041.3	PPF, P1, HPLH2	perforin 1 (pore forming protein)
PRKCD	NM_006254.3		protein kinase C, delta
PSMB10	NM_002801.2	MECL1, LMP10, MGC1665, beta2i	proteasome (prosome, macropain) subunit, beta type, 10
PSMB5	NM_001130725.1	X, MB1	proteasome (prosome, macropain) subunit, beta type, 5
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)
PSMC2	NM_002803.3	MSS1, S7, Nbla10058	proteasome (prosome, macropain) 26S subunit, ATPase, 2
PSMD7	NM_002811.3	S12, P40, MOV34, Rpn8	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
PTAFR	NM_000952.3		platelet-activating factor receptor
PTGER4	NM_000958.2	EP4	prostaglandin E receptor 4 (subtype EP4)
PTGS2	NM_000963.1	COX2	prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)
PTK2	NM_005607.3	FAK, FADK, FAK1	PTK2 protein tyrosine kinase 2
PTPN2	NM_002828.2	PTPT, TCELLPTP, TC-PTP, TCTPT	protein tyrosine phosphatase, non-receptor type 2
PTPN22	NM_015967.4	PTPN2, Lyp, Lyp1, Lyp2	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
PTPN6	NM_002831.5	HCP, HCPC, PTP-1C, SHP-1, SHP1	protein tyrosine phosphatase, non-receptor type 6
PTPRC_all (common probe)	NM_080921.2	CD45, LCA, T200, GP180	protein tyrosine phosphatase, receptor type, C
CD45R0	NM_080921.3	CD45, LCA, T200, GP180	protein tyrosine phosphatase, receptor type, C
CD45RA	NM_002838.4	CD45, LCA, T200, GP180	protein tyrosine phosphatase, receptor type, C
CD45RB	ENST00000367367.1	CD45, LCA, T200, GP180	protein tyrosine phosphatase, receptor type, C
PYCARD	NM_013258.3	TMS-1, CARD5, ASC	PYD and CARD domain containing
RAF1	NM_002880.2	Raf-1, c-Raf, CRAF	v-raf-1 murine leukemia viral oncogene homolog 1
RAG1	NM_000448.2	RNF74, MGC43321	recombination activating gene 1
RAG2	NM_000536.3		recombination activating gene 2
RARRES3	NM_004585.3	TIG3, HRASL4	retinoic acid receptor responder (tazarotene induced) 3
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
RORC	NM_001001523.1	RZRg, RORg, NR1F3, TOR	RAR-related orphan receptor C
RUNX1	NM_001754.4	AML1, CBFA2, PEBP2A2, AMLCR1	runt-related transcription factor 1
S100A8	NM_002964.3	CAGA, CFAG, P8, MRP8, 608BAG, CGLA	S100 calcium binding protein A8
S100A9	NM_002965.2	P14, MIF, NIF, LIAG, MRP14, MAC387, 608BAG, CGLB	S100 calcium binding protein A9
S1PR1	NM_001400.3	EDG1, edg-1, D1S3362, CD363	sphingosine-1-phosphate receptor 1
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_003006.3	PSGL-1, CD162	selectin P ligand
SERPING1	NM_000062.2	C1NH, C1IN, C1-INH, HAE1, HAE2	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1
SH2D1A	NM_001114937.2	IMDS, LYP, XLP, MTCF1, DSHP, XLPD, EBVS, SAP	SH2 domain containing 1A
SIGIRR	NM_021805.2	TIR8	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain
SKI	NM_003036.2		v-ski sarcoma viral oncogene homolog (avian)
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
SLC2A1	NM_006516.2	GLUT1, GLUT, DYT18	solute carrier family 2 (facilitated glucose transporter), member 1
SMAD3	NM_005902.3	MADH3, JV15-2, HsT17436	SMAD family member 3
SMAD5	NM_005903.5	MADH5, Dwfc, JV5-1	SMAD family member 5
SOCs1	NM_003745.1	SOCs-1, SSI-1, JAB, TIP3, Cish1	suppressor of cytokine signaling 1
SOCs3	NM_003955.3	SSI-3, CIs3, SOCS-3, Cish3	suppressor of cytokine signaling 3
SPP1	NM_000582.2	BNSP, OPN, BSP1, ETA-1	secreted phosphoprotein 1
SRC	NM_005417.3	SRC1, ASV, c-src	v-src sarcoma (Schmidt-Ruppin A-2) viral oncogene homolog (avian)
STAT1	NM_007315.2	STAT1N1, 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
STAT5A	NM_003152.2	STAT5, MGF	signal transducer and activator of transcription 5A
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
SYK	NM_003177.3		spleen tyrosine kinase
TAGAP	NM_054114.3	FLJ32631, IDDM21, ARHGAP47	T-cell activation RhoGTPase activating protein
TAL1	NM_003189.2	TCL5, SCL, bHLHa17	T-cell acute lymphocytic leukemia 1
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)
TBK1	NM_013254.2	NAK	TANK-binding kinase 1
TBX21	NM_013351.1	TBLYM, T-bet	T-box 21
TCF4	NM_003199.1	SEF2-1B, ITF2, bHLHb19, E2-2	transcription factor 4
TCF7	NM_003202.2	TCF-1	transcription factor 7 (T-cell specific, HMG-box)
TFRC	NM_003234.1	CD71, TFR1	transferrin receptor (p90, CD71)
TGFB1	NM_000660.3	TGFB, DDP1, CED, TGFbeta	transforming growth factor, beta 1
TGFB2	NM_000358.2	CSD3, LCD1, CSD1, CSD2, BIGH3, CDB1, CDGG1	transforming growth factor, beta-induced, 68kDa
TGFB3	NM_004612.2	ALK-5, ACVRLK4	transforming growth factor, beta receptor 1
TGFB4	NM_001024847.1	MFS2	transforming growth factor, beta receptor II (70/80kDa)
THY1	NM_006288.2	CD90	Thy-1 cell surface antigen
TICAM1	NM_014261.1	TRIF, TICAM-1, MGC35334, PRVTRB	toll-like receptor adaptor molecule 1
TIGIT	NM_173799.2	VSIG9, VSTM3, FLJ39873, DKFZp667A205	T cell immunoreceptor with Ig 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
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	toll-like receptor 4
TLR5	NM_003268.3	TIL3, SLEB1, FLJ10052, MGC126430, MGC126431	toll-like receptor 5
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
TMEM173	NM_198282.1	FLJ38577, NET23	transmembrane protein 173
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
TNFAIP6	NM_007115.2	TSG6, TSG-6	tumor necrosis factor, alpha-induced protein 6
TNFRSF10C	NM_003841.3	DcR1, TRAILR3, LIT, TRID, CD263	tumor necrosis factor receptor superfamily, member 10c, decoy without an intracellular domain
TNFRSF11A	NM_003839.2	RANK, CD265	tumor necrosis factor receptor superfamily, member 11a, NFKB activator
TNFRSF13B	NM_012452.2	TAC1, 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	tumor necrosis factor receptor superfamily, member 17
TNFRSF18	NM_001066.2	TNFR2, TNFR, TNFR80, TNF-R75, TNF-R-II, p75, CD120b	tumor necrosis factor receptor superfamily, member 18
TNFRSF4	NM_003327.2	TXGP1L, ACT35, OX40, CD134	tumor necrosis factor receptor superfamily, member 4
TNFRSF8	NM_152942.2	CD30, DIS166E, KI-1	tumor necrosis factor receptor superfamily, member 8
TNFRSF9	NM_001561.4	ILA, CD137, 4-1BB	tumor necrosis factor receptor superfamily, member 9
TNFSF10	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
TNFSF13B	NM_006573.4	TNFSF20, BAFF, THANK, BLYS, TALL-1, TALL1, CD257	tumor necrosis factor (ligand) superfamily, member 13b
TNFSF15	NM_001204344.1	TL1, VEGI, TL1A, VEGI192A, MGC129934, MGC129935	tumor necrosis factor (ligand) superfamily, member 15
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-1RAcP	toll interacting protein
TP53	NM_000546.2	p53, LFS1	tumor protein p53
TRAF1	NM_005658.3	EBI6	TNF receptor-associated factor 1
TRAF2	NM_021138.3	TRAF3	TNF receptor-associated factor 2
TRAF3	NM_145725.1	CAP-1, CD40bp, CRAF1, LAP1	TNF receptor-associated factor 3
TRAF4	NM_004295.2	CART1, MLN62, RNF83	TNF receptor-associated factor 4
TRAF5	NM_004619.3	RNF84	TNF receptor-associated factor 5
TRAF6	NM_145803.1	RNF85	TNF receptor-associated factor 6
TYK2	NM_003331.3	JTK1	tyrosine kinase 2
UBE2L3	NM_198157.1	UBCH7	ubiquitin-conjugating enzyme E2L3
VCAM1	NM_001078.3	CD106	vascular cell adhesion molecule 1
VTN	NM_000638.3	VN	vitronectin
XBP1	NM_005080.2	XBP2	X-box binding protein 1
XCL1	NM_002995.1	LTN, SCYC1, LPTN, ATAC, SCM-1a, SCM-1, lymphotactin	chemokine (C motif) ligand 1
XCR1	NM_005283.2	GPR5, CXCR1	chemokine (C motif) receptor 1
ZAP70	NM_001079.3	SRK, ZAP-70, STD	zeta-chain (TCR) associated protein kinase 70kDa
ZBTB16	NM_006006.4	ZNF145, PLZF	zinc finger and BTB domain containing 16
ZEB1	NM_001128128.1	TCF8, PPCD3, BZP, ZEB, AREB6, NIL-2-A, Zfhep, Zfhx1a	zinc finger E-box binding homeobox 1
Internal Reference Genes			
ABCF1	NM_001090.2	ABCS0, EST123147	ATP-binding cassette, sub-family F (GCN20), member 1
ALAS1	NM_000688.4	ALAS3, ALAS	aminolevulinatase, delta-, synthase 1
EEF1G	NM_001404.4	EEF1G	eukaryotic translation elongation factor 1 gamma
G6PD	NM_000402.2	G6PD1	glucose-6-phosphate dehydrogenase
GAPDH	NM_002046.3	GAPD	glyceraldehyde-3-phosphate dehydrogenase
GUSB	NM_000181.1		glucuronidase, beta
HPRT1	NM_000194.1	HPRT, HGPRT	hypoxanthine phosphoribosyltransferase 1
OAZ1	NM_004152.2	OAZ, AZI, MGC138338	ornithine decarboxylase antizyme 1
POLR1B	NM_019014.3	Rpo1-2, FLJ21921, FLJ10816, RPA2	polymerase (RNA) I polypeptide B, 128kDa
POLR2A	NM_000937.2	POLR2, POLRA, RPB1	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa
PPIA	NM_021130.2	CYPA	peptidylprolyl isomerase A (cyclophilin A)
SDHA	NM_004168.1	FP, SDHF	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
TBP	NM_001172085.1	GTF2D1, SCA17, TFIID	TATA box binding protein
TUBB	NM_178014.2	OK/SW-cl.56, MGC16435, M40, Tubb5	tubulin, beta
RPL19	NM_000981.3	FLJ27452, MGC71997, DKFZp779D216, L19	ribosomal protein L19