

nCounter® Mouse Immunology Panel - Gene and Probe Details

Official Symbol	Accession	Alias or Previous Symbol	Official Full Name
Abcb10	NM_019552.2	ABC-me	ATP-binding cassette, sub-family B (MDR/TAP), member 10
Abcb1a	NM_011076.1	mdr-3, Mdr1a, P-gp, P-glycoprotein, Pgy-3, Pgy3, multiple drug resistant 1a, Pgp, MDR3, Evi32	ATP-binding cassette, sub-family B (MDR/TAP), member 1A
Abcf1	NM_013854.1	Abcf50, GCN20, D17Wsu166e	ATP-binding cassette, sub-family F (GCN20), member 1
Abl1	NM_009594.3	c-Abl	c-abl oncogene 1, non-receptor tyrosine kinase
Adal	NM_029475.1		adenosine deaminase-like
Ahr	NM_013464.4	dioxin receptor, In, Ah, Ahh, Ahre, bHLHe76	aryl-hydrocarbon receptor
Aicda	NM_009645.2	Aid	activation-induced cytidine deaminase
Aire	NM_009646.1		autoimmune regulator (autoimmune polyendocrinopathy candidiasis ectodermal dystrophy)
App	NM_007471.2	betaAPP, Abeta, protease nexin II, Adap, Cvap, appican	amyloid beta (A4) precursor protein
Arhgdib	NM_007486.4	D4, Ly-GDI, Gdid4	Rho, GDP dissociation inhibitor (GDI) beta
Atg16l1	NM_029846.3	APG16L, WDR30	autophagy-related 16-like 1 (yeast)
Atm	NM_007499.1		ataxia telangiectasia mutated homolog (human)
B2m	NM_009735.3	beta 2 microglobulin, beta2-m, Ly-m11	beta-2 microglobulin
Batf	NM_016767.2	B-ATF, SFA-2	basic leucine zipper transcription factor, ATF-like
Batf3	NM_030060.2		basic leucine zipper transcription factor, ATF-like 3
Bax	NM_007527.3		BCL2-associated X protein
Bcap31	NM_012060.4	BAP31	B cell receptor associated protein 31
Bcl2	NM_009741.3	Bcl-2	B cell leukemia/lymphoma 2
Bcl3	NM_033601.3	Bcl-3	B cell leukemia/lymphoma 3
Bcl6	NM_009744.3	Bcl5	B cell leukemia/lymphoma 6
Bid	NM_007544.3		BH3 interacting domain death agonist
Blnk	NM_008528.4	SLP-65, BLNK, BASH, BCA, Ly-57, Bca, Ly57	B cell linker
Bst1	NM_009763.3	114/A10, Ly65, Bst1a, Bp3, CD157	bone marrow stromal cell antigen 1
Bst2	NM_198095.2	C87040, Bst-2, GREG	bone marrow stromal cell antigen 2
Btk	NM_013482.2	Brunton's tyrosine kinase, xid, X-linked immune deficiency	Brunton agammaglobulinemia tyrosine kinase
Btla	NM_177584.3		B and T lymphocyte associated
Btnl1	NM_001111094.1	Gm333, Btnl3, Gm316	butyrophilin-like 1
Btnl2	NM_079835.2	BTL-II, butyrophilin-like MHC class II associated, NG9, BTLN2	butyrophilin-like 2
C1qa	NM_007572.2	C1q	complement component 1, q subcomponent, alpha polypeptide
C1qb	NM_009777.2		complement component 1, q subcomponent, beta polypeptide
C1qbp	NM_007573.2	HABP1, P32, D11Wsu182e	complement component 1, q subcomponent binding protein
C1ra	NM_023143.3	mC1rA	complement component 1, r subcomponent A
C1s	NM_144938.2		complement component 1, s subcomponent
C2	NM_013484.2	classical-complement pathway C3/C5 convertase	complement component 2 (within H-25)
C3	NM_009778.2	complement factor 3, acylation stimulating protein, Plp	complement component 3
C4a	NM_011413.2	Slp	complement component 4A (Rodgers blood group)
C4bp	NM_007576.3		complement component 4 binding protein
C6	NM_016704.2		complement component 6
C7	XM_356827.6	A530026G17, Gm1238	complement component 7
C8a	NM_146148.1		complement component 8, alpha polypeptide
C8b	NM_133882.2		complement component 8, beta polypeptide
C8g	NM_027062.1		complement component 8, gamma polypeptide
C9	NM_013485.1		complement component 9
Camp	NM_009921.2	MCLP, Cramp, Cnlp, CAP18, FALL39	cathelicidin antimicrobial peptide
Card9	NM_001037747.1	LOC332579	caspase recruitment domain family, member 9
Casp1	NM_009807.2	ICE, Caspase-1, interleukin 1 beta-converting enzyme, I1bc	caspase 1
Casp2	NM_007610.1	Ich-1, Caspase-2, Nedd2	caspase 2
Casp3	NM_009810.2	CPP32, Yama, Apopain, Caspase-3, CC3, midy, AC-3	caspase 3
Casp8	NM_009812.2	FLICE, MACH, Mch5, Caspase-8	caspase 8
Ccbp2	NM_021609.3	D6, CCR9, CCR10, Cmkbr9	chemokine binding protein 2
Ccl11	NM_011330.3	eotaxin, Sca11	chemokine (C-C motif) ligand 11
Ccl12	NM_011331.2	MCP-5, Sca12	chemokine (C-C motif) ligand 12
Ccl19	NM_011888.2	exodus-3, Sca19, Ckb11	chemokine (C-C motif) ligand 19
Ccl2	NM_011333.3	monocyte chemoattractant protein, MCP-1, monocyte chemoattractant protein-1, Sigje, MCAF, SMC-CF, HC11, MCP1, Sca2	chemokine (C-C motif) ligand 2
Ccl20	NM_016960.1	MIP-3[a], ST38, MIP3A, MIP-3A, exodus-1, Ckb4, Sca20	chemokine (C-C motif) ligand 20
Ccl22	NM_009137.2	ABCD-1, MDC, Sca22	chemokine (C-C motif) ligand 22
Ccl24	NM_019577.4	eotaxin-2, MPIF-2, Sca24, Ckb-6	chemokine (C-C motif) ligand 24
Ccl25	NM_009138.3	TECK, Ckb15, Sca25	chemokine (C-C motif) ligand 25
Ccl26	NM_001013412.2	eotaxin-3, Ccl26l	chemokine (C-C motif) ligand 26
Ccl3	NM_011337.1	MIP-1 alpha, MIP1-alpha, MIP1-(a), macrophage inflammatory protein-1alpha, MIP-1alpha, Mip1a, CCL3, G0S19-1, LD78alpha, Sca3	chemokine (C-C motif) ligand 3
Ccl4	NM_013652.1	MIP-1 beta, MIP-1B, Mip1b, Act-2, AT744.1, Sca4	chemokine (C-C motif) ligand 4
Ccl5	NM_013653.1	MuRantes, Sca5, S1Sd, TCP228, RANTES	chemokine (C-C motif) ligand 5
Ccl6	NM_009139.2	c10, Sca6, MRP-1	chemokine (C-C motif) ligand 6
Ccl7	NM_013654.2	fic, mcp3, marc, Sca7, MCP-3	chemokine (C-C motif) ligand 7
Ccl8	NM_021443.2	RP23-446k18.1, 1810063820Rik, AB023418, HC14, MCP-2, Mcp2, Sca8	chemokine (C-C motif) ligand 8
Ccl9	NM_011338.2	MRP-2, CCF18, MIP-1 gamma, Sca10, Sca9	chemokine (C-C motif) ligand 9
Ccr10	NM_007721.4	GPR2, CCR10, Cmkbr9	chemokine (C-C motif) receptor 10
Ccr2	NM_009915.2	Cmkbr2, CKR2, CCR2A, CCR2B, CKR2A, CKR2B, CC-CKR-2	chemokine (C-C motif) receptor 2
Ccr3	NM_009914.4	MIP-1 alphaRL2, Cmkbr3, CKR3, CC-CKR3	chemokine (C-C motif) receptor 3
Ccr4	NM_009916.2	CC CKR-4, Cmkbr4	chemokine (C-C motif) receptor 4
Ccr5	NM_009917.5	CD195, Cmkbr5	chemokine (C-C motif) receptor 5
Ccr6	NM_001190333.1	Cmkbr6	chemokine (C-C motif) receptor 6
Ccr7	NM_007719.2	EBI1, Ebi1h, CD197, Cmkbr7	chemokine (C-C motif) receptor 7
Ccr8	NM_007720.2	Cmkbr8	chemokine (C-C motif) receptor 8
Ccr9	NM_009913.6	GPR-9-6, Cmkbr10	chemokine (C-C motif) receptor 9
Ccr11	NM_145700.2	CCR11, VSHK1, CX-CKR, PPR1, CCBP2	chemokine (C-C motif) receptor-like 1
Ccr12	NM_017466.4	L-CCR, CCR11, Cmkbr112	chemokine (C-C motif) receptor-like 2
Cd109	NM_153098.3	Gov platelet alloantigens	CD109 antigen
Cd14	NM_009841.3		CD14 antigen
Cd160	NM_001163496.1	By55	CD160 antigen
Cd163	NM_053094.2		CD163 antigen
Cd164	NM_016898.2	MGC-24, A115, A24	CD164 antigen
Cd19	NM_009844.2		CD19 antigen
Cd1d1	NM_007639.3	CD1.1, Cd1d, Cd1a, Ly-38	CD1d1 antigen
Cd2	NM_013486.2	LFA-2, Ly37, Ly-37	CD2 antigen
Cd209g	NM_027343.3		CD209g antigen
Cd22	NM_001043317.2	Lyb-8, Lyb8	CD22 antigen
Cd226	NM_001039149.1	Pta1, DNAM1, DNAM-1, TLISA1	CD226 antigen
Cd244	NM_018729.2	2B4, C9.1, F730046015Rik, Ly90, NAIL, NKR2B4, Nmrk, SLAMF4	CD244 natural killer cell receptor 2B4
Cd247	NM_00113391.2	TCRk, CD3h, CD3-eta, CD3-zeta, Cd3z, CD3-zeta/eta, T3z, Tcrz, CD3zeta, CD3 zeta	CD247 antigen
Cd24a	NM_009846.2	heat stable antigen, HSA, Ly-52, cluster of differentiation 24, necladrin	CD24a antigen
Cd27	NM_001042564.1	Cd27, Tp55, S152, Tnfrsf7	CD27 antigen
Cd274	NM_021893.2	PD-L1, B7-1H, Pdcd1lg1	CD274 antigen
Cd28	NM_007642.4		CD28 antigen
Cd34	NM_001111059.1		CD34 antigen
Cd36	NM_007643.3	fatty acid translocase, FAT, Scarb3	CD36 antigen

Cd3d	NM_013487.2	T3d	CD3 antigen, delta polypeptide
Cd3e	NM_007648.4	T3e, CD3, CD3epsilon	CD3 antigen, epsilon polypeptide
Cd3eap	NM_145822.2	PAF49, Ase1	CD3E antigen, epsilon polypeptide associated protein
Cd4	NM_013488.2	L3T4, Ly-4	CD4 antigen
Cd40	NM_011611.2	Cd40, p50, Bp50, Tnfrsf5	CD40 antigen
Cd40lg	NM_011616.2	CD154, gp39, Ly-62, Cd40L, IMD3, HIGM1, T-BAM, Tnfsf5	CD40 ligand
Cd44	NM_009851.2	Ly-24, Pgp-1, HERMES	CD44 antigen
Cd46	NM_010778.3	CD46, Mcp	CD46 antigen, complement regulatory protein
Cd48	NM_007649.4	Sgp-60, BLAST-1, Bcm-1, BCM1	CD48 antigen
Cd5	NM_007650.3	Ly-A, Lyl-1, Ly-12, Ly-1	CD5 antigen
Cd53	NM_007651.3	Ox-44, Tspan25	CD53 antigen
Cd55	NM_010016.2	Daf-GPI, complement-glycosylphosphatidylinositol, GPI-DAF, Daf1, Cromer blood group	CD55 antigen
Cd59b	NM_181858.1		CD59b antigen
Cd6	NM_001037801.2		CD6 antigen
Cd69	NM_001033122.3	AIM, VEA	CD69 antigen
Cd7	NM_009854.1		CD7 antigen
Cd74	NM_001042605.1	CLIP, li	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)
Cd79a	NM_007655.3	mb-1, Ig alpha, Iga, Ly54, Cd79a, Ig-alpha, Ly-54, Igalpha	CD79A antigen (immunoglobulin-associated alpha)
Cd79b	NM_008339.2	B29, Igb, Igbeta, Ig-beta	CD79B antigen
Cd80	NM_009855.2	B7-1, Ly-53, Ly53, Cd281, B7.1	CD80 antigen
Cd81	NM_133655.2	Tspan28, Tapa-1, Tapa1	CD81 antigen
Cd82	NM_001271430.1	C33, Tspan27, Kai1	CD82 antigen
Cd83	NM_009856.2		CD83 antigen
Cd86	NM_019388.3	B7-2, MB7-2, B70, Ly-58, Cd2812, B7.2, Ly58	CD86 antigen
Cd8a	NM_001081110.2	Ly-B, Ly-2, Ly-35, Lyl-2	CD8 antigen, alpha chain
Cd8b1	NM_009858.2	Ly-C, Ly-3, Lyl-3	CD8 antigen, beta chain 1
Cd9	NM_007657.3	Tspan29	CD9 antigen
Cd96	NM_032465.2	Tactile	CD96 antigen
Cd97	NM_011925.1	EGF-TM7 receptor	CD97 antigen
Cd99	NM_025584.2	D4, p1lr-1	CD99 antigen
Cdh5	NM_009868.3	7B4/cadherin-5, VE-cadherin, VEC, CD144, VE-Cad, VECD, VEcad	cadherin 5
Cdkn1a	NM_007669.4	Waf1, P21, CIP1, SDI1, CAP20, mda6, p21Cip1, p21WAF, Cdkn1, CDK1, p21<WAF1/CIP1> CD66a, mmCGM2, mCEA1, mmCGM1, MHVR1, Bgp, Hv-2, Mhv-1, Cea-1, Cea-7, Cea1, Bgp1, C-	cyclin-dependent kinase inhibitor 1A (P21)
Ceacam1	NM_001039185.1	CAM, Hv2, Cea7, Cc1	carcinoembryonic antigen-related cell adhesion molecule 1
Ceabpb	NM_009883.3	NF-IL6, C/EBP BETA, IL-6DBP, LAP, CRP2, NF-M, Nfil6, C/EBPbeta, LIP	CCAAT/enhancer binding protein (C/EBP), beta
Cfb	NM_008198.2	Factor B, B, alternative-complement pathway C3/C5 convertase, Bf, FB, H2-Bf	complement factor B
Cfd	NM_013459.1	DF, D component (adipsin) of complement, factor D, Adn	complement factor D (adipsin)
Cfh	NM_009888.3	Sas-1, Mud-1, Sas1	complement component factor h
Cfi	NM_007686.2		complement component factor i
Cfp	NM_008823.3	Pfc	complement factor properdin
Chuk	NM_001162410.1	Chuk1, IKK-alpha, IKK[a], IKK1, IKKalpha, IKK alpha, IKK 1, IkappaB kinase alpha, IKK-1	conserved helix-loop-helix ubiquitous kinase
Ciita	NM_007575.2	C2ta, Gm9475	class II transactivator
Cish	NM_009895.3	F23, Cis, CIS1, cytokine-inducible SH2 protein	cytokine inducible SH2-containing protein
Clec4a4	NM_001005860.2	Dclr2	C-type lectin domain family 4, member a4
Clec4e	NM_019948.2	Mincle, Clec5f9	C-type lectin domain family 4, member e
Clec5a	NM_001038604.1	Ly100, MDL-1, myeloid DAP12-associating lectin-1, Clec5f5	C-type lectin domain family 5, member a
Clu	NM_013492.2	Sgp-2, complement lysis inhibitor, SP-40, testosterone repressed prostate message-2, Apolipoprotein J, ApoJ, Cli, Sugg-2, Sgp2, D14Ucla3	clusterin
Cmkir1	NM_008153.3	Gpcr27, ChemR23	chemokine-like receptor 1
Cr2	NM_007758.2	CD21, CD35, Cr-1, Cr-2, Cr1, C3DR	complement receptor 2
Cradd	NM_009950.2	RAIDD	CASP2 and RIPK1 domain containing adaptor with death domain
Crif2	NM_001164735.1	Ly114, Tslpr, Tpte2	cytokine receptor-like factor 2
Csf1	NM_001113530.1	M-CSF, CSF-1, colony-stimulating factor-1, Csfm	colony stimulating factor 1 (macrophage)
Csf1r	NM_001037859.1	CD115, M-CSFR, CSF-1R, Fms, Csfmr, Fim-2	colony stimulating factor 1 receptor
Csf2	NM_009969.4	Gm-CSF, Csfgm, MGI-HGM, GMCSF	colony stimulating factor 2 (granulocyte-macrophage)
Csf2rb	NM_007780.4	Alc2b, Cdw131, common beta chain, Bc, beta c, Il3r, Il5rb, Il3rb1, Csf2rb1	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
Csf3r	NM_001252651.1	G-CSFR, Csfgr, Cd114	colony stimulating factor 3 receptor (granulocyte)
Ctla4	NM_009843.3	CH29-120A16.2, Cd152, Ctla-4, Ly-56	cytotoxic T-lymphocyte-associated protein 4
Ctnnb1	NM_007614.2	beta-catenin, Ctnnb, beta catenin	catenin (cadherin associated protein), beta 1
Ctsc	NM_009982.2	DPP1, DPP1, dipeptidylpeptidase 1	cathepsin C
Ctsg	NM_007800.1		cathepsin G
Ctss	NM_021281.2	Cat 5	cathepsin S
CuI9	NM_001081335.2	Parc	cullin 9
Cx3cl1	NM_009142.3	fractalkine, CX3C, neurotactin, D8Bwg0439e, Sycd1	chemokine (C-X3-C motif) ligand 1
Cx3cr1	NM_009987.3		chemokine (C-X3-C) receptor 1
Cxcl1	NM_008176.1	N51, Mgsa, Fsp, Gro1, Scyb1, KC/GRO-alpha, KC	chemokine (C-X-C motif) ligand 1
Cxcl10	NM_021274.1	CRG-2, IP-10, Ili10, mob-1, INP10, C7, gIP-10, Scyb10, IP10	chemokine (C-X-C motif) ligand 10
Cxcl11	NM_019494.1	betaR1, H174, SCYB9B, IP9, ITAC, b-R1, I-TAC, Scyb11	chemokine (C-X-C motif) ligand 11
Cxcl12	NM_021704.3	Sdf1a, Sdf1b, SDF-1, PBSF/SDF-1, Scyb12, Sdf1, TPARI, TLSF-a, TLSF-b, PBSF	chemokine (C-X-C motif) ligand 12
Cxcl13	NM_018866.2	BLC, BCA-1, ANGIE2, Scyb13	chemokine (C-X-C motif) ligand 13
Cxcl15	NM_011339.2	lungkine, weche, Scyb15	chemokine (C-X-C motif) ligand 15
Cxcl3	NM_203320.2	Dclp1	chemokine (C-X-C motif) ligand 3
Cxcl9	NM_008599.2	Mig, CMK, crg-10, Scyb9	chemokine (C-X-C motif) ligand 9
Cxcr1	NM_178241.4	Il8ra	chemokine (C-X-C motif) receptor 1
Cxcr2	NM_009909.3	CD128, IL-8Rh, IL-8rb, Gpcr16, Cmkar2, IL8RA, Il8rb	chemokine (C-X-C motif) receptor 2
Cxcr3	NM_009910.2	Cxcr3, Cmkar3, Cd183	chemokine (C-X-C motif) receptor 3
Cxcr4	NM_009911.3	fusin, PB-CKR, CD184, Cmkar4, Sdf1r	chemokine (C-X-C motif) receptor 4
Cxcr5	NM_007551.2	Gpcr6, CXCR-5, Blr1	chemokine (C-X-C motif) receptor 5
Cxcr6	NM_030712.4	BONZO, STRL33	chemokine (C-X-C motif) receptor 6
Cybb	NM_007807.2	gp91phox, gp91<phox>, Nox2, Cgd	cytochrome b-245, beta polypeptide
Ddx58	NM_172689.3	RIG-I	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58
Defb1	NM_007843.3	mBD-1	defensin beta 1
Defb14	NM_183026.2	mBD14	defensin beta 14
Dpp4	NM_001159543.1	THAM, Cd26, Dpp-4	dipeptidylpeptidase 4
Ebi3	NM_015766.2	IL-27, EBI-3	Epstein-Barr virus induced gene 3
Emr1	NM_010130.1	DD7A5-7, F4/80, TM7LN3, EGF-TM7, Ly71	EGF-like module containing, mucin-like, hormone receptor-like sequence 1
Entpd1	NM_009848.3	NTPDase-1, CD39, ectoapyrase	ectonucleoside triphosphate diphosphohydrolase 1
Eomes	NM_010136.2	Tbr2	eomesodermin homolog (Xenopus laevis)
Ets1	NM_001038642.1	Ets-1, Tpl1, p42Ets-1, p51Ets-1	E26 avian leukemia oncogene 1, 5' domain
Fadd	NM_010175.5	Mort1/FADD	Fas (TNFRSF6)-associated via death domain
Fas	NM_007987.2	CD95, APO-1, TNFR6, Tnfrsf6	Fas (TNF receptor superfamily member 6)
FasL	NM_010177.3	Fas-L, CD178, APT1LG1, CD95L, Tnfsf6	Fas ligand (TNF superfamily, member 6)
Fcamr	NM_001170632.1		Fc receptor, IgA, IgM, high affinity
Fcer1a	NM_010184.1	Fce1a, Fcr-5, FcERI	Fc receptor, IgE, high affinity I, alpha polypeptide
Fcer1g	NM_010185.4	FcR[lg], FcR-gamma, Ly-50, Fce1g, FcRgamma, FcepsilonRI	Fc receptor, IgE, high affinity I, gamma polypeptide
Fcgr1	NM_010186.5	CD64, FcgammaRI	Fc receptor, IgG, high affinity I
Fcgr2b	NM_001077189.1	Fcr-3	Fc receptor, IgG, low affinity IIb
Fcgr3	NM_010188.5	CD16, Fcg receptor III, FcgammaRIII	Fc receptor, IgG, low affinity III
Fcgr4	NM_144559.1	CD16-2, FcgammaRIIV, Fcgr3a	Fc receptor, IgG, low affinity IV
Fcgrt	NM_010189.3	FcRn, neonatal Fc receptor	Fc receptor, IgG, alpha chain transporter

Fkbp5	NM_010220.3	FKBP51, Dit1, D17Ert592e	FK506 binding protein 5
Fn1	NM_010233.1	Fn-1, Fn	fibronectin 1
Folr4	NM_022888.2	Folbp3	folate receptor 4 (delta)
Foxp3	NM_054039.1	JM2, scurfin	forkhead box P3
Frmpp4	NM_001033330.2	LOC237234, Pdzk10, Pdzd10	FERM and PDZ domain containing 4
Fyn	NM_008054.2	Src Kinase p59	Fyn proto-oncogene
Gata3	NM_008091.3	Gata-3	GATA binding protein 3
Gfi1	NM_010278.2	Pal-1, Pal1, Gfi-1	growth factor independent 1
Gm10499	XM_003086920.1		predicted gene 10499
Gpi1bb	NM_010327.2		glycoprotein Ib, beta polypeptide
		Org, Gpi-1, Gpi-1t, Gpi-1s, Gpi-1r, Gpi1-r, Gpi1-s, Gpi1-t, NK/GPI, neuroleukin, autocrine motility	
Gpi1	NM_008155.3	factor, AMF, NK, maturation factor, MF	glucose phosphate isomerase 1
Gpr183	NM_183031.2	Ebi2	G protein-coupled receptor 183
Gpr44	NM_009962.2	Crth2, PGD2 receptor	G protein-coupled receptor 44
Gzma	NM_010370.2	Hanukah factor, BLT esterase, TSP1, serine esterase 1, Hf, CtlA-3, CtlA3, TSP-1, SE1, H factor	granzyme A
Gzmb	NM_013542.2	CCP-1/C11, CCP1, CtlA-1, CtlA1, GZB	granzyme B
H2-Aa	NM_010378.2	A alpha, Aalpha, Ia-1, Ia1, H-2Aa, I-Aalpha	histocompatibility 2, class II antigen A, alpha
H2-Ab1	NM_207105.2	Abeta, A beta, H-2Ab, Ia-2, H2-Ab, Ia2, IAb, I-Acb>, I-Abeta, Rmcs1	histocompatibility 2, class II antigen A, beta 1
H2-Dma	NM_010386.3	H2-Ma, H-2Ma, H2-M alpha	histocompatibility 2, class II, locus DMA
H2-DMb2	NM_010388.4	H2-Mb2, H-2Mb2, H2-M beta2	histocompatibility 2, class II, locus Mb2
H2-Ea-ps	NM_010381.2	H-2Ea, Ia-3, Ia3, I-Ealpha	histocompatibility 2, class II antigen E alpha, pseudogene
H2-Eb1	NM_010382.2	H-2Eb, Ia-4, Ia4	histocompatibility 2, class II antigen E beta
H2-K1	NM_001001892.2	H-2K, H-2K(d), H2-K, K-f	histocompatibility 2, K1, K region
H2-Ob	NM_010389.3	H-2I, Ob, H2-Iab2, H2-Ab, H-2Ob, H2-Ab2, A-beta-2, A-beta2	histocompatibility 2, O region beta locus
H2-Q10	NM_010391.4	H-2Q10, Q10, Qa10	histocompatibility 2, Q region locus 10
H60a	NM_010400.2		histocompatibility 60a
Hamp	NM_032541.1	Hamp1, Hepc, Hepc1	hepcidin antimicrobial peptide
Hc	NM_010406.1	C5a, C5, He	hemolytic complement
Hcst	NM_011827.3	DAP10, KAP10	hematopoietic cell signal transducer
Hfe	NM_010424.4	MR2	hemochromatosis
Hif1a	NM_010431.1	MOP1, HIF-1alpha, HIF1alpha, bHLHe78	hypoxia inducible factor 1, alpha subunit
Hlx	NM_008250.2	Hlx1	H2.0-like homeobox
Icam1	NM_010493.2	MALA-2, CD54, Icam-1, Ly-47	intercellular adhesion molecule 1
Icam2	NM_010494.1	CD102, Icam-2	intercellular adhesion molecule 2
Icam4	NM_023892.2	Cd242	intercellular adhesion molecule 4, Landsteiner-Wiener blood group
Icam5	NM_008319.2	CD50, Tlcn, TLN, Icam3	intercellular adhesion molecule 5, telencephalin
Icos	NM_017480.1		inducible T cell co-stimulator
Icosl	NM_015790.3	GL50, B7h, ICOS-L, B7RP-1, LICOS, GL50-B, B7-H2	icos ligand
Ifi204	NM_008329.2	Ifi16, p204	interferon activated gene 204
Ifi35	NM_027320.4	IFP35	interferon-induced protein 35
Ifih1	NM_027835.2	Helicard, MDA-5, MDA5	interferon induced with helicase C domain 1
Ifit2	NM_008332.2	Ifi54	interferon-induced protein with tetratricopeptide repeats 2
Ifitm1	NM_001112715.1	fragilis2, MII2	interferon induced transmembrane protein 1
Ifna1	NM_010502.2	RP23-360M23.1, Ifa1	interferon alpha 1
Ifna2	NM_010503.2	RP23-139P14.4, Ifa2	interferon alpha 2
Ifnar1	NM_010508.1	Ifrc, Ifar, IFN-alpha/betaR	interferon (alpha and beta) receptor 1
Ifnar2	NM_001110498.1	Ifnar-2	interferon (alpha and beta) receptor 2
Ifnb1	NM_010510.1	interferon beta 1, fibroblast, ifb, IFNB, IFN-beta	interferon beta 1, fibroblast
Ifng	NM_008337.1	IFN-gamma, Ifg	interferon gamma
Ifngr1	NM_010511.2	CD119, Nktar, Ifgr, Ifngr, IFN-gamma R, IFN-gammaR	interferon gamma receptor 1
Ifngr2	NM_008338.3	Ifgt, Ifgr2	interferon gamma receptor 2
Igf2r	NM_010515.1	Mpr300, IGF-II/Ci-MPR, Ci-MPR, M6P/GF2R, CD222, mannose-6-phosphate receptor, cation independent	insulin-like growth factor 2 receptor
Ikkkap	NM_026079.3	Etp1, C78473, IKAP	inhibitor of kappa light polypeptide enhancer in B cells, kinase complex-associated protein
Ikkbb	NM_010546.2	IKK2, IKK-2, IKK-beta, IKK[b], IKKbeta	inhibitor of kappaB kinase beta
Ikkbe	NM_019777.3	IKK-1, IKKepsilon	inhibitor of kappaB kinase epsilon
Ikkbg	NM_178590.2	IKK[g], NEMO	inhibitor of kappaB kinase gamma
Ikzf1	NM_001025597.1	Lyf-1, Ikaros, Zfpn1a1	IKAROS family zinc finger 1
Ikzf2	NM_011770.4	Helios, Zfpn1a2	IKAROS family zinc finger 2
Ikzf3	NM_011771.1	Aiolos, Zfpn1a3	IKAROS family zinc finger 3
Ikzf4	NM_011772.2	Eos, Zfpn1a4	IKAROS family zinc finger 4
Il10	NM_010548.1	cytokine synthesis inhibitory factor, IL-10	interleukin 10
Il10ra	NM_008348.2	mIL-10R, Il10r, CDw210	interleukin 10 receptor, alpha
Il10rb	NM_008349.5	CRF2-4, D21558h, D16H21558, Crfb4, Il10r2	interleukin 10 receptor, beta
Il11ra1	NM_010549.3	NR1, Il11ra, Il-11ra, Il-11ra-alpha	interleukin 11 receptor, alpha chain 1
Il12a	NM_008351.1	IL-12p35, p35	interleukin 12a
Il12b	NM_008352.1	IL-12p40, IL-12 p40, IL-12b, IL-23 subunit p40	interleukin 12b
Il12rb1	NM_008353.2	IL-12R[b], CD212	interleukin 12 receptor, beta 1
Il12rb2	NM_008354.3	IL-12RB2, Ifnm	interleukin 12 receptor, beta 2
Il13	NM_008355.2	IL-13	interleukin 13
Il13ra1	NM_133990.4	CD213a1	interleukin 13 receptor, alpha 1
Il15	NM_008357.2		interleukin 15
Il15ra	NM_008358.2		interleukin 15 receptor, alpha chain
Il16	NM_010551.3		interleukin 16
Il17a	NM_010552.3	Ctla-8, Ctla8, Il17	interleukin 17A
Il17b	NM_019508.1	Zcyto7	interleukin 17B
Il17f	NM_145856.2		interleukin 17F
Il17ra	NM_008359.1	VDw217, Il17r	interleukin 17 receptor A
Il17rb	NM_019583.3	Evi27, IL-17RH1, IL17RH1, IL-17ER, Il17br	interleukin 17 receptor B
Il17re	NM_001034029.1	Il25r	interleukin 17 receptor E
Il18	NM_008360.1	IL-18, Igif	interleukin 18
Il18r1	NM_001161842.1	Il1rrp, Il18ralpha	interleukin 18 receptor 1
Il18rap	NM_010553.2	AcPL accessory protein-like)	interleukin 18 receptor accessory protein
Il19	NM_001009940.1		interleukin 19
Il1a	NM_010554.4	Il-1a	interleukin 1 alpha
Il1b	NM_008361.3	IL-1b, IL-1beta	interleukin 1 beta
Il1r1	NM_001123382.1	CD121a, IL-1 receptor alpha chain, Il1r-1, IL-1R	interleukin 1 receptor, type I
Il1r2	NM_010555.4	CD121b, IL-1 receptor beta chain, Il1r-2	interleukin 1 receptor, type II
Il1rap	NM_134103.2	IL-1R AcP, IL-1RAcP	interleukin 1 receptor accessory protein
Il1r1l	NM_001025602.2	T1 gene, T1, T1/ST2, ST2, DER4, Fit-1, ST2L, St2, St2-rs1, Ly84	interleukin 1 receptor-like 1
Il1r1r2	NM_133193.3		interleukin 1 receptor-like 2
Il1rn	NM_031167.5	IL-1ra	interleukin 1 receptor antagonist
Il2	NM_008366.2	IL-2	interleukin 2
Il20	NM_021380.1	Zcyto10	interleukin 20
Il21	NM_021782.2		interleukin 21
Il21r	NM_021887.1	NILR	interleukin 21 receptor
Il22	NM_016971.1	mCG_123110, IL-22, IL-22a, ILTIFa, Iltf	interleukin 22
Il22ra2	NM_178258.5	IL-22bp	interleukin 22 receptor, alpha 2
Il23a	NM_031252.1	p19, IL-23, IL-23p19	interleukin 23, alpha subunit p19
Il23r	NM_144548.1		interleukin 23 receptor
Il25	NM_080729.2	IL-17E, Il17e	interleukin 25

Il27	NM_145636.1	p28, IL-27, Il30, IL-27p28	interleukin 27
Il27ra	NM_016671.3	WSX-1, IL-27R, Tccr	interleukin 27 receptor, alpha
Il28a	NM_001024673.2	Ifnl2, IL-28A EG330496	interferon lambda 2
Il2ra	NM_008367.2	CD25, IL-2R alpha chain, Ly-43, Il2r	interleukin 2 receptor, alpha chain
Il2rb	NM_008368.3	CD122, IL-2Rbeta, IL-15Rbeta, IL-15 receptor beta chain, IL-2/15Rbeta, IL15Rbeta	interleukin 2 receptor, beta chain
Il2rg	NM_013563.3	gamma C receptor, common gamma chain, [g]c, CD132, common cytokine receptor gamma chain, gamma(c), gc	interleukin 2 receptor, gamma chain
Il3	NM_010556.4	IL-3, BPA, HCGF, MCGF, PSF, Csfmu	interleukin 3
Il33	NM_133775.1	NF-HEV, IL-33, Il1f11	interleukin 33
Il4	NM_021283.1	IL-4	interleukin 4
Il4ra	NM_001008700.3	CD124, IL-4 receptor alpha chain, Il4r	interleukin 4 receptor, alpha
Il5	NM_010558.1	IL-5	interleukin 5
Il6	NM_031168.1	IL-6	interleukin 6
Il6ra	NM_010559.2	CD126, IL-6 receptor alpha chain, Il6r, IL-6R	interleukin 6 receptor, alpha
Il6st	NM_010560.2	gp130, CD130, D13Ert699e	interleukin 6 signal transducer
Il7	NM_008371.2	IL-7, hlb368	interleukin 7
Il7r	NM_008372.3	CD127, IL-7 receptor alpha chain, IL-7Ralpha	interleukin 7 receptor
Il9	NM_008373.1	IL-9, P40	interleukin 9
Ilf3	NM_010561.2	NF90	interleukin enhancer binding factor 3
Irak1	NM_008363.2	mPLK, Plpk, Il1rak, IRAK-1	interleukin-1 receptor-associated kinase 1
Irak2	NM_001113553.1	IRAK-2	interleukin-1 receptor-associated kinase 2
Irak3	NM_028679.3	IRAK-M	interleukin-1 receptor-associated kinase 3
Irak4	NM_029926.5	NY-REN-64, IRAK-4	interleukin-1 receptor-associated kinase 4
Irf1	NM_008390.1	Irf-1	interferon regulatory factor 1
Irf3	NM_016849.3	IRF-3	interferon regulatory factor 3
Irf4	NM_013674.1	Spip, IRF-4	interferon regulatory factor 4
Irf5	NM_012057.3	mirf5	interferon regulatory factor 5
Irf7	NM_016850.2		interferon regulatory factor 7
Irf8	NM_008320.3	IRF-8, ICSBP, Myls, Icsbp1	interferon regulatory factor 8
Irgm1	NM_008326.1	LRG-47, Ilgp3, Ifi1, Irgm	immunity-related GTPase family M member 1
Irga2b	NM_010575.2	platelet glycoprotein IIb, GpIIb, alphallb, CD41, GP IIb	integrin alpha 2b
Irga4	NM_010576.3	VLA-4 receptor, alpha 4 subunit	integrin alpha 4
Irga5	NM_010577.3	Fnra, Cd49e	integrin alpha 5 (fibronectin receptor alpha)
Irga6	NM_008397.3	Cd49f	integrin alpha 6
Irgal	NM_008400.2	LFA-1, Cd11a, Ly-21, Ly-15	integrin alpha L
Irgam	NM_001082960.1	CD11b (p170), complement component receptor 3 alpha, Mac-1, Mac-1 alpha, complement receptor type 3, CD11b/CD18, CR3, Mac-1a, Ly-40, Cd11b	integrin alpha M
Irgax	NM_021334.2	CD11C (p150) alpha polypeptide, Cd11c	integrin alpha X
Irgb1	NM_010578.1	CD29, beta1 integrin, Fnrb, Gm9863	integrin beta 1 (fibronectin receptor beta)
Irgb2	NM_008404.4	Mac-1 beta, Z66, Cd18	integrin beta 2
Itn1	NM_010584.3	IntL, Itin, Itin2, Itin5, Itina, Lfr	intelectin 1 (galactofuranose binding)
Jak1	NM_146145.2		Janus kinase 1
Jak2	NM_001048177.1	C81284	Janus kinase 2
Jak3	NM_010589.5		Janus kinase 3
Kir3dl1	NM_177749.3	RP23-69M9.1, Kir1, Kir12, Krl1	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1
Kir3dl2	NM_177748.2	RP23-69M9.4, Kirf2	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2
Kit	NM_001122733.1	CD117, c-KIT, Steel Factor Receptor, Dominant white spotting, belly-spot, Tr-kit, SC01, SC05, SOW3, Gfsfco1, Gfsfco5, Gfsfow3	kit oncogene
Kira1	NM_016659.3	Ly49A, Ly49o<129>	killer cell lectin-like receptor, subfamily A, member 1
Kira21	NM_053151.1	CH29-511G10.2, Ly49H, Ly49u	killer cell lectin-like receptor subfamily A, member 21
Kira4	NM_010649.3	RP23-128D23.4, Chok, Kira32, Ly-49d, Ly49d, ly49r&lt;129&gt;	killer cell lectin-like receptor, subfamily A, member 4
Kira5	NM_008463.2	RP23-451F7.2, Ly49e	killer cell lectin-like receptor, subfamily A, member 5
Kira6	NM_008464.2	RP23-451F7.4, Ly49f	killer cell lectin-like receptor, subfamily A, member 6
Kira7	NM_00110323.1	RP23-128D23.2, LGL-1, Ly-49G.1, Ly-49G.2, Ly-49G.3, Ly49G.4, Ly49g, Ly49g1, Ly49g2	killer cell lectin-like receptor, subfamily A, member 7
Kira8	NM_010650.3	mCG_129364, Cmv-1, Cmv1, Ly49h, Ly49u&lt;129&gt;	killer cell lectin-like receptor, subfamily A, member 8
Kirb1	NM_001099918.1	4930431A04Rik, Gm4696, Kirbig, Kirb6, Ly-55, Ly55, NKR-P1G, Nkrp-1e, Nkrp1g	killer cell lectin-like receptor subfamily B member 1
Kirc1	NM_001136068.1	NGK2A, NGK2B, CD159a	killer cell lectin-like receptor subfamily C, member 1
Kirc2	NM_001098669.1	NGK2C	killer cell lectin-like receptor subfamily C, member 2
Kirc3	NM_021378.1	RP23-145F22.4, Kirc2, Nkg2e	killer cell lectin-like receptor subfamily C, member 3
Kird1	NM_010654.2	CD94	killer cell lectin-like receptor, subfamily D, member 1
Kirk1	NM_001083322.1	NGK2-D, Nkg2d, D6H1252489E	killer cell lectin-like receptor subfamily K, member 1
Lair1	NM_001113474.1	D7Bwg0421e, Lair-1, mLair-1	leukocyte-associated Ig-like receptor 1
Lck	NM_010693.2	Hck-3, p56<1ck>	lymphocyte protein tyrosine kinase
Lcp2	NM_010696.3	SLP-76, twm, SLP76	lymphocyte cytosolic protein 2
Lef1	NM_010703.3	lymphoid enhancer factor 1, Lef-1	lymphoid enhancer binding factor 1
Lif	NM_008501.2		leukemia inhibitory factor
Lilra5	NM_001081239.2	Gm4878	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5
Lilra6	NM_011090.2	7M1, Pira3	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 6
Lilrb3	NM_011095.2	Gp91, Pirb	leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3
Lilrb4	NM_013532.2	CD85K, Gp49b, HM18, ILT3, LIR-5, gp49	leukocyte immunoglobulin-like receptor, subfamily B, member 4
Litaf	NM_019980.1	TBX1 protein, Nedd4 WW domain-binding protein 3, N4WBP3	LPS-induced TNF factor
Lta	NM_010735.1	lymphotoxin alpha, LT[a], LT-alpha, LT-[a], lymphotoxin, TNF beta, LT, TNF-beta, Tnfb, Tnfsf1b, LTalpha, Ltx, hlb382	lymphotoxin A
Ltb	NM_008518.2	lymphotoxin beta, Tnfb, LTbeta, Tnfsf3, p33	lymphotoxin B
Ltb4r1	NM_008519.2	mBLTR, BLTR, BLT1	leukotriene B4 receptor 1
Ltb4r2	NM_020490.2	BLT2	leukotriene B4 receptor 2
Ltbr	NM_010736.3	LT beta-R, LT-beta receptor, TNF receptor-related protein, TNFRrp, Lttr, Tnfr, LTbetaR, TNFR2-RP, TNFCR, TNF-R-III, Tnfrsf3	lymphotoxin B receptor
Ltf	NM_008522.3	Lf, lactoferrin	lactotransferrin
Ly86	NM_010745.2	MD1, MD-1	lymphocyte antigen 86
Ly96	NM_016923.1	MD-2, MD2, ESOP-1, myeloid differentiation factor-2	lymphocyte antigen 96
Maf	NM_001025577.2	c-maf	avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog
Map4k1	NM_008279.2	Hpk1	mitogen-activated protein kinase kinase kinase kinase 1
Map4k2	NM_009006.2	BL44, Rab8ip	mitogen-activated protein kinase kinase kinase kinase 2
Map4k4	NM_008696.2	Nik	mitogen-activated protein kinase kinase kinase kinase 4
Mapk1	NM_011949.3	p42mapk, MAPK2, Erk2, Prkm1	mitogen-activated protein kinase 1
Mapk11	NM_011161.5	Prkm11, P38b, Sapk2, p38beta	mitogen-activated protein kinase 11
Mapk14	NM_011951.2	p38 MAP kinase, p38, p38-alpha, CSBP2, Mxi2, Crk1, Csbp1, p38MAPK, p38 alpha, p38a, p38	mitogen-activated protein kinase 14
Mapkapk2	NM_008551.1	MAPK, p38 MAP kinase alpha, p38alpha	MAP kinase-activated protein kinase 2
Marco	NM_010766.2	Scara2	macrophage receptor with collagenous structure
Masp1	NM_008555.2	Crarf	mannan-binding lectin serine peptidase 1
Masp2	NM_010767.3	MASP-2, MAp19	mannan-binding lectin serine peptidase 2
Mbl2	NM_010776.1	MBL-C, MBL, MBP-C	mannose-binding lectin (protein C) 2
Mbp	NM_010777.3	Hmbpr, golli-mbp	myelin basic protein
Mif	NM_010798.2	Glif	macrophage migration inhibitory factor
Mme	NM_008604.3	CD10, neprilysin, NEP, neutral endopeptidase	membrane metallo endopeptidase
Mir1	NM_008209.4	MR1, H2is	major histocompatibility complex, class I-related
Ms4a1	NM_007641.5	Ly-44, Cd20	membrane-spanning 4-domains, subfamily A, member 1
Msr1	NM_001113326.1	MSR-A, SR-AI, SR-All, Scara1, Scvr, MRS-A	macrophage scavenger receptor 1
Muc1	NM_013605.1	EMA, CD227, Muc-1	mucin 1, transmembrane

Mx1	NM_010846.1	myxovirus (influenza) resistance 1 polypeptide, Mx, Mx-1	myxovirus (influenza virus) resistance 1
Myd88	NM_010851.2		myeloid differentiation primary response gene 88
Ncam1	NM_001113204.1	CD56, NCAM-1, NCAM-180, NCAM-140, NCAM-120, E-NCAM, NCAM	neural cell adhesion molecule 1
Ncf4	NM_008677.2	p40phox	neutrophil cytosolic factor 4
Nfat1	NM_016791.4	NFATc, NFAT2, NF-ATc	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1
Nfat2	NM_001037177.1	NFAT1, NFATp, NFAT1-D	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2
Nfat3	NM_010901.2	NFAT4, NFATx, DBErt281e	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 3
Nfil3	NM_017373.3	E4BP4	nuclear factor, interleukin 3, regulated
Nfkb1	NM_008689.2	p50 subunit of NF kappaB, NF kappaB1, p50/p105, nuclear factor kappaB p50, p50, NF-kappaB,	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105
Nfkb2	NM_019408.2	NF-kappaB p50	nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100
Nfkb3	NM_010907.2	I(kappa)B(alpha), Nfkbj, IkappaBalpaha, I-kappaBalpaha	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha
Nfkbiz	NM_030612.1	Mail	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, zeta
Nod2	NM_145857.2	Card15, Nlr2	nucleotide-binding oligomerization domain containing 2
Nos2	NM_010927.3	INOS, Nos-2, NOS-II, Nos2a	nitric oxide synthase 2, inducible
Notch1	NM_008714.2	lin-12, Tan1, Mis6, Motch A, N1	Notch gene homolog 1 (Drosophila)
Notch2	NM_010928.1	Motch B, N2	Notch gene homolog 2 (Drosophila)
Nox1	NM_172203.1	GP91 phox homolog, Nox-1	NADPH oxidase 1
Nox3	NM_198958.2	het, nmf250	NADPH oxidase 3
Nox4	NM_015760.4		NADPH oxidase 4
Npc1	NM_008720.2	D18Ert2139e, D18Ert2723e, C85354, lcsd, nmf164	Niemann Pick type C1
Nt5e	NM_011851.3	CD73, ecto-5'-nucleotidase, Nt5	5' nucleotidase, ecto
Pax5	NM_008782.2	Pax-5, EBB-1	paired box gene 5
Pdcd1	NM_008798.1	PD-1, Pdc1	programmed cell death 1
Pdcd1lg2	NM_021396.2	Btdc, PD-L2, B7-DC	programmed cell death 1 ligand 2
Pdcd2	NM_008799.2	RP-8	programmed cell death 2
Pdgfb	NM_011057.3	Sis, PDGF-B	platelet derived growth factor, B polypeptide
Pdgfrb	NM_008809.1	CD140b, Pdgfr	platelet derived growth factor receptor, beta polypeptide
Pecam1	NM_008816.2	PECAM-1, Cd31	platelet/endothelial cell adhesion molecule 1
Phlpp1	NM_133821.3	A1836256, Phlpp, Plekhe1, SCOP, mKIAA0606	PH domain and leucine rich repeat protein phosphatase 1
Phlpp2	NM_001122594.2	Phlppl	PH domain and leucine rich repeat protein phosphatase 2
Pigr	NM_011082.3		polymeric immunoglobulin receptor
Pla2g2a	NM_001082531.1	Enhancing factor, EF, modifier of Min1	phospholipase A2, group IIA (platelets, synovial fluid)
Pla2g2e	NM_012044.2	mGIIeSPLA2s	phospholipase A2, group IIE
Plau	NM_008873.2	uPA, u-PA, urokinase-type plasminogen activator	plasminogen activator, urokinase
Plaur	NM_011113.3	uPAR, Cd87, u-PAR, urokinase-type plasminogen activator receptor	plasminogen activator, urokinase receptor
Pml	NM_008884.2	Trim19	promyelocytic leukemia
Pou2f2	NM_001163554.1	Oct2a, Oct2b, Oct-2, Otf-2, Otf2	POU domain, class 2, transcription factor 2
Pparg	NM_011146.1	Nr1c3, PPAR-gamma, Ppar-gamma2, PPARgamma, PPARgamma2	peroxisome proliferator activated receptor gamma
Ppbb	NM_023785.2	THBG81, beta-TG, Cxcl7	pro-platelet basic protein
Prdm1	NM_007548.3	PRDI-BF1, Blimp1, Blimp-1	PR domain containing 1, with ZNF domain
Prf1	NM_011073.2	perforin, Prf-1, Ppf, Pfn	perforin 1 (pore forming protein)
Prim1	NM_008921.2		DNA primase, p49 subunit
Prkcd	NM_011103.2	PKC[d], PKCdelta, Pkcd, D14Ert2420e	protein kinase C, delta
Psmb10	NM_013640.3	Mecl1, Mecl-1	proteasome (prosome, macropain) subunit, beta type 10
Psmb11	NM_175204.4	beta5t	proteasome (prosome, macropain) subunit, beta type, 11
Psmb5	NM_011186.1		proteasome (prosome, macropain) subunit, beta type 5
Psmb7	NM_011187.1	MC14	proteasome (prosome, macropain) subunit, beta type 7
Psmb9	NM_013585.2	Lmp-2, Lmp2	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)
Psmc2	NM_011188.3		proteasome (prosome, macropain) 26S subunit, ATPase 2
Psmc7	NM_010817.2	Mov-34, Mov34	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
Ptafr	NM_001081211.1	PAF receptor, PAFR	platelet-activating factor receptor
Ptger4	NM_008965.1	Ptgerp4, EP4	prostaglandin E receptor 4 (subtype EP4)
Ptgs2	NM_011198.3	Cox-2, cyclooxygenase 2, Pghs2, COX2, prostaglandin G/H synthase, PHS-2, cyclooxygenase-2,	prostaglandin-endoperoxide synthase 2
Ptk2	NM_007982.2	Fadk, FAK, FRNK, fak	PTK2 protein tyrosine kinase 2
Ptpn2	NM_001127177.1	Ptpt, TC-PTP	protein tyrosine phosphatase, non-receptor type 2
Ptpn22	NM_008979.1	70zpep, Ptpn8	protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
Ptpn6	NM_013545.2	SHP-1, hcp, Ptp1C, Hcph	protein tyrosine phosphatase, non-receptor type 6
Ptprc	NM_011210.3	T200, B220, CD45, Lyt-4, Ly-5	protein tyrosine phosphatase, receptor type, C
Rae1	NM_175112.5	41, MNRP, MNRP41, D2Ert2342e	RAE1 RNA export 1 homolog (S. pombe)
Rag1	NM_009019.2	Rag-1	recombination activating gene 1
Rag2	NM_009020.3	Rag-2	recombination activating gene 2
Rela	NM_009045.4	p65 NF kappaB, p65	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
Relb	NM_009046.2	shep	avian reticuloendotheliosis viral (v-rel) oncogene related B
Rorc	NM_011281.2	thymus orphan receptor, Thor, RORgamma	RAR-related orphan receptor gamma
Runx1	NM_001111021.1	runt domain, alpha subunit 2, Pebp2a2, AML1, Cbfa2	runt related transcription factor 1
Runx3	NM_019732.2	AML2, Cbfa3	runt related transcription factor 3
S100a8	NM_013650.2	MRP8, Caga, p8, B8Ag, CP-10, CFag, 60B8Ag	S100 calcium binding protein A8 (calgranulin A)
S100a9	NM_009114.2	MRP14, Cagb, p14, L1Ag, GAGB, 60B8Ag, BEE22	S100 calcium binding protein A9 (calgranulin B)
Sele	NM_011345.2	E-selectin, CD62E, Elam	selectin, endothelial cell
Sell	NM_001164059.1	L-selectin, LECAM-1, CD62L, Ly-m22, Lnh, Ly-22, Lyam-1, Lyam1	selectin, lymphocyte
Selp1g	NM_009151.3	Psgl1, Psgl-1, CD162	selectin, platelet (p-selectin) ligand
Serping1	NM_009776.3	C1nh, C1 inhibitor, C1INH	serine (or cysteine) peptidase inhibitor, clade G, member 1
Sh2d1a	NM_011364.3	Duncan disease homolog, SAP	SH2 domain protein 1A
Sigirr	NM_023059.3	Sigirr, Tir8	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain
Ski	NM_011385.2		ski sarcoma viral oncogene homolog (avian)
Slamf1	NM_013730.4	CD150, IPO-3, ESTM51, Slam, CDw150	signaling lymphocytic activation molecule family member 1
Slamf7	NM_144539.5	novel Ly9, CS1, 19A24, 19A	SLAM family member 7
Smad3	NM_016769.3	Smad 3, Madh3	MAD homolog 3 (Drosophila)
Smad5	NM_008541.2	MusMLP, Smad 5, Madh5	MAD homolog 5 (Drosophila)
Socs1	NM_009896.2	SSI-1, JAB, JAK-binding protein, STAT-induced STAT inhibitor 1, JAK2-binding protein, Cish7, Cish1, SOCS-1	suppressor of cytokine signaling 1
Socs3	NM_007707.2	SOCS-3, EF-10, E2a-Pbx1 target gene in fibroblasts 10, SSI-3, STAT-induced STAT inhibitor 3, CISH3, cytokine-inducible SH2 protein 3, Cish3	suppressor of cytokine signaling 3
Spn	NM_001037810.1	3E8 antigen, leukosialin, Cd43, Ly-48, Ly48, Galgp	sialoprotein
Src	NM_001025395.2	pp60c-src	Rous sarcoma oncogene
Stat1	NM_009283.3		signal transducer and activator of transcription 1
Stat2	NM_019963.1		signal transducer and activator of transcription 2
Stat3	NM_213659.2	Aprf	signal transducer and activator of transcription 3
Stat4	NM_011487.4		signal transducer and activator of transcription 4
Stat5a	NM_011488.2	STAT5	signal transducer and activator of transcription 5A
Stat5b	NM_011489.3		signal transducer and activator of transcription 5B
Stat6	NM_009284.2		signal transducer and activator of transcription 6
Syk	NM_011518.2	Sykb	spleen tyrosine kinase
Tagap	NM_145968.2		T cell activation Rho GTPase activating protein
Tal1	NM_011527.2	SCL/tal-1, Scl, bHLHa17	T cell acute lymphocytic leukemia 1
Tap1	NM_001161730.1	PSF-1, RING4, MTP1, Ham-1, Tap-1, Ham1, Abcb2, TAP	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
Tapbp	NM_009318.2	tapasin, TPN, D17Wsu91e	TAP binding protein
Tbk1	NM_019786.4		TANK-binding kinase 1

Tbx21	NM_019507.1	TBT1, Tblmy, T-bet	T-box 21
Tcf4	NM_013685.1	SEF-2, ME2, MITF-2A, MITF-2B, ITF-2, E2-2, TFE, E2.2, ITF-2b, ASP-12, SEF2-1, bHLHb19	transcription factor 4
Tcf7	NM_009331.3	TCF-1, Tcf1, T-cell factor 1, T cell factor-1	transcription factor 7, T cell specific
Tfrc	NM_011638.3	CD71, Mtvr-1, Mtvr1, Trfr, p90, TFR1	transferrin receptor
Tgfb1	NM_011577.1	TGF-beta 1, Tgfb, Tgfb-1, TGFbeta1, TGF-beta1	transforming growth factor, beta 1
Tgfb2	NM_009367.1	Tgf-beta2, Tgfb-2	transforming growth factor, beta 2
Tgfb3	NM_009368.2	Tgfb-3	transforming growth factor, beta 3
Tgfb4	NM_009369.4	biG-h3, 68kDa, Beta-ig	transforming growth factor, beta induced
Tgfb1r1	NM_009370.2	TbetaR-I, TbetaRI, ALK5, Alk-5	transforming growth factor, beta receptor I
Tgfb1r2	NM_009371.2	TbetaRII, TbetaRII, TBR-II	transforming growth factor, beta receptor II
Thy1	NM_009382.3	CD90, Thy-1, Thy 1.2, Thy1.1, Thy1.2, Thy-1.2, T25	thymus cell antigen 1, theta
Tigit	NM_001146325.1	ENSMUSG00000071552, Vstm3	T cell immunoreceptor with Ig and ITIM domains
Tirap	NM_001177847.1	Mal, MyD88-adaptor-like, wyatt, Mal	toll-interleukin 1 receptor (TIR) domain-containing adaptor protein
Tlr1	NM_030682.1		toll-like receptor 1
Tlr2	NM_011905.2	Ly105	toll-like receptor 2
Tlr3	NM_126166.2		toll-like receptor 3
Tlr4	NM_021297.2	Lps, Rasl2-8, lipopolysaccharide response	toll-like receptor 4
Tlr5	NM_016928.2		toll-like receptor 5
Tlr8	NM_133212.2		toll-like receptor 8
Tlr9	NM_031178.2		toll-like receptor 9
Tmem173	NM_028261.1	MPYS, ERIS, Sting	transmembrane protein 173
Tnf	NM_013693.1	tumor necrosis factor-alpha, TNF-alpha, TNFalpha, TNF alpha, DIF, Tnfsf1a, Tnfa	tumor necrosis factor
Tnfaip3	NM_009397.2	zinc finger protein A20, A20, Tnfp3	tumor necrosis factor, alpha-induced protein 3
Tnfaip6	NM_009398.2	Tsg6, Tnfp6, TSG-6	tumor necrosis factor alpha induced protein 6
Tnfrsf11a	NM_009399.3	Rank, TRANCE-R	tumor necrosis factor receptor superfamily, member 11a
Tnfrsf13b	NM_021349.1	Taci	tumor necrosis factor receptor superfamily, member 13b
Tnfrsf13c	NM_028075.2	BAFF-R, Bcmd-1, Baffr, Lvis22, Bcmd1	tumor necrosis factor receptor superfamily, member 13c
Tnfrsf14	NM_178931.2	Hvem, Atar, HveA	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)
Tnfrsf17	NM_011608.1	BCM, Tnfrsf13a, Tnfrsf13	tumor necrosis factor receptor superfamily, member 17
Tnfrsf1b	NM_011610.3	CD120b, p75, TNF-R2, p75 TNFR, Tnfr2, TNFBR, TNFR80, TNF-R-II, TNF-R75, TNFRII, TNF-alphaR2, TNFalpha-R2	tumor necrosis factor receptor superfamily, member 1b
Tnfrsf4	NM_011659.2	CD134, ACT35, Ox40, Txp1	tumor necrosis factor receptor superfamily, member 4
Tnfrsf8	NM_009401.2	CD30	tumor necrosis factor receptor superfamily, member 8
Tnfrsf9	NM_001077508.1	4-1BB, Cdw137, Cd137, Ly63, ILA	tumor necrosis factor receptor superfamily, member 9
Tnfrsf10	NM_009425.2	APO-2L, Trail	tumor necrosis factor (ligand) superfamily, member 10
Tnfrsf11	NM_011613.3	RANKL, ODF, OPGL, Ly109I, Trance, OPGL, osteoclast differentiation factor	tumor necrosis factor (ligand) superfamily, member 11
Tnfrsf12	NM_011614.3	Tweak, DR3L, APO3L	tumor necrosis factor (ligand) superfamily, member 12
Tnfrsf13b	NM_033622.1	BAFF, zTNF4, TALL-1, Bly5, D8Ert387e	tumor necrosis factor (ligand) superfamily, member 13b
Tnfrsf14	NM_019418.2	HVEM-L, LIGHT	tumor necrosis factor (ligand) superfamily, member 14
Tnfrsf15	NM_177371.3	TL1, TL1A, VEGI	tumor necrosis factor (ligand) superfamily, member 15
Tnfrsf18	NM_183391.3	GITR ligand, Gitrl	tumor necrosis factor (ligand) superfamily, member 18
Tnfrsf8	NM_009403.2	Cd30L, CD153, CD30LG	tumor necrosis factor (ligand) superfamily, member 8
Tollip	NM_023764.3	Toll interacting protein	toll interacting protein
Traf1	NM_009421.3		TNF receptor-associated factor 1
Traf2	NM_009422.2		TNF receptor-associated factor 2
Traf3	NM_001048206.1	CRAF1, CD40bp, CAP-1, LAP1	TNF receptor-associated factor 3
Traf4	NM_009423.4	CART1, msp2	TNF receptor associated factor 4
Traf5	NM_011633.1		TNF receptor-associated factor 5
Traf6	NM_009424.2		TNF receptor-associated factor 6
Trem1	NM_021406.3		triggering receptor expressed on myeloid cells 1
Trem2	NM_031254.2	Trem2a, Trem2b, Trem2c	triggering receptor expressed on myeloid cells 2
Trp53	NM_011640.1	p53, p44	transformation related protein 53
Tslp	NM_021367.1		thymic stromal lymphopoietin
Tyk2	NM_018793.2	JTK1	tyrosine kinase 2
Tyrobp	NM_011662.2	DAP12, KARAP, killer cell activating receptor associated protein	TYRO protein tyrosine kinase binding protein
Ube2l3	NM_009456.2	UbcM4, Ubce7	ubiquitin-conjugating enzyme E2L 3
Vcam1	NM_011693.2	CD106, Vcam-1	vascular cell adhesion molecule 1
Vtn	NM_011707.2	Vn	vitronectin
Xbp1	NM_013842.2	XBP-1, TREB-5, TREB5, D11Ert39e	X-box binding protein 1
Xcl1	NM_008510.1	Lptn, LTN, ATAC, Scyc1, SCM-1, SCM-1a, lymphotactin	chemokine (C motif) ligand 1
Xcr1	NM_011798.4	C motif-1/lymphotactin receptor, GPRS, XCR1, Cxcr1	chemokine (C motif) receptor 1
Zap70	NM_009539.2	Srk, ZAP-70, TZK	zeta-chain (TCR) associated protein kinase
Zbtb7b	NM_009565.4	c-Krox, Zfp67, Thpok	zinc finger and BTB domain containing 7B
Zeb1	NM_011546.2	NIJ, MEB1, [delta]EF1, Tcf8, Zfx1a, Tcf18, Zfhpf, ZEB, AREB6, Zfhx1a, Tw	zinc finger E-box binding homeobox 1

#### Internal Reference Genes

Alas1	NM_020559.2	5-aminolevulinatase synthase, succinyl-CoA: glycine C-succinyl transferase, Alas-1, ALAS-N	aminolevulinic acid synthase 1
Eef1g	NM_026007.4	EF1G	eukaryotic translation elongation factor 1 gamma
G6pdx	NM_008062.2	G28A, Gpdx, G6pdx	glucose-6-phosphate dehydrogenase X-linked
Gapdh	NM_001001303.1	Gapd	glyceraldehyde-3-phosphate dehydrogenase
Gusb	NM_010368.1	g, Gut, Gur, asd, adipose storage deficiency, Gus-r, Gus-s, Gus-t, Gus-u, Gus	glucuronidase, beta
Hprt	NM_013556.2	Hprt1	hypoxanthine guanine phosphoribosyl transferase
Oaz1	NM_008753.4	AZ-1, AZ1, Antizyme, ODC-Az, Oaz	ornithine decarboxylase antizyme 1
Poir1b	NM_009086.2	RPA2, RPA116, 128kDa, Rpo1-2	polymerase (RNA) I polypeptide B
Poir2a	NM_009089.2	Rpo2-1, 220kDa	polymerase (RNA) II (DNA directed) polypeptide A
Ppia	NM_008907.1	RP23-198N14.9, 2700098C05, Cphn, CyP-18, CypA	peptidylprolyl isomerase A
Rpl19	NM_009078.2		ribosomal protein L19
Sdha	NM_023281.1	FP, SDH2, SDHF	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
Tbp	NM_013684.3	Gtf2d	TATA box binding protein
Tubb5	NM_011655.4		tubulin, beta 5 class I