

nCounter® Non-Human Primate Immunology V2 Panel - Gene and Probe Details

Gene Name	Accession	Alias / Previous Symbol	Official Full Name
ABC1	NM_001032887.1	PGY1, MDR1, CLCS, P-gp, CD243, GP170, ABC20	ATP binding cassette subfamily B member 1
ABL1	XM_005580623.1	ABL, JTK7, c-ABL, p150	ABL proto-oncogene 1, non-receptor tyrosine kinase
ADA	XM_001109908.2		adenosine deaminase
AGER	NM_001205117.1	RAGE	advanced glycosylation end product-specific receptor
AHR	XM_005550046.1	bHLHe76	aryl hydrocarbon receptor
AICDA	XM_005570042.1	HIGM2, CDA2, ARP2, AID	activation-induced cytidine deaminase
AIRE	XM_001103602.2	APECED, PGA1, APS1	autoimmune regulator
AKT3	XM_005539655.1	PKBG, RAC-gamma, PRKBG	v-akt murine thymoma viral oncogene homolog 3
ALOX12	XM_001104192.2	12S-LOX	arachidonate 12-lipoxygenase
ALOX15	XM_001094627.2	15-LOX-1	arachidonate 15-lipoxygenase
ALOX5	XM_005565109.1	5-LOX	arachidonate 5-lipoxygenase
ANP32B	XM_005581222.1	SSP29, PHAPI2, APRIL	acidic nuclear phosphoprotein 32 family member B
APOE	XM_005589553.1	AD2	apolipoprotein E
APP	XM_002803170.1	AD1	amyloid beta precursor protein
AREG	XM_001101978.2	SDGF, AREGB	amphiregulin
ARG1	XM_005551843.2		arginase 1
ARG2	NM_001261253.1		arginase 2
ARHGDI3	XM_005570240.1	RAP1GN1, GDIA2, GDID4, Ly-GDI, RhoGDI2	Rho GDP dissociation inhibitor (GDI) beta
ATF2	XM_005573535.1	CREB2, TREB7, CRE-BP1, HB16	activating transcription factor 2
ATG10	XM_001111368.2	APG10L, DKFZP586I0418, FLJ13954	autophagy related 10
ATG12	XR_010348.2	APG12L, APG12	autophagy related 12
ATG16L1	XM_005574649.1	APG16L, ATG16L, WDR30, FLJ10035, ATG16A	autophagy related 16 like 1
ATG5	XM_005552246.1	APG5L, ASP, APG5, hAPG5	autophagy related 5
ATG7	NM_001265972.1	APG7L, GSA7, DKFZp434N0735	autophagy related 7
ATM	XM_002799779.1	ATA, ATDC, ATC, ATD, TEL1, TEO1	ATM serine/threonine kinase
B2M	NM_001047137.1		beta-2-microglobulin
B3GAT1	XM_005580225.1	CD57, LEU7, GlcAT-P, HNK-1, NK-1	beta-1,3-glucuronyltransferase 1
BAD	XM_005577426.2	BCL2L8, BBC2	BCL2 associated agonist of cell death
BATF	XM_005561820.1	B-ATF, SFA-2, BATF1	basic leucine zipper transcription factor, ATF-like
BATF3	XM_005540791.1	JUNDM1, SNFT, JDP1	basic leucine zipper transcription factor, ATF-like 3
BAX	XM_005589832.1	BCL2L4	BCL2-associated X protein
BCAP31	XM_005594916.1	DXS1357E, BAP31, 6C6-Ag, CDM	B-cell receptor-associated protein 31
BCL10	XM_005542846.1	CARMEN, CIPER, mE10, c-E10, CLAP	B-cell CLL/lymphoma 10
BCL2	XM_005586524.1	Bcl-2, PPP1R50	B-cell CLL/lymphoma 2
BCL2L1	XM_005568633.1	BCLX, BCL2L, Bcl-X, bcl-xL, bcl-xS, PPP1R52	BCL2 like 1
BCL2L11	XM_005575254.1	BOD, BimL, BimEL, BimS, BIM	BCL2 like 11
BCL3	XM_001109319.2	D19S37, BCL4	B-cell CLL/lymphoma 3
BCL6	XM_005545439.1	ZNF51, ZBTB27, LAZ3, BCL5, BCL6A	B-cell CLL/lymphoma 6
BID	XM_002798280.1		BH3 interacting domain death agonist
BIRC2	XM_005579457.1	API1, cIAP1, hiap-2, MIH8, RNF48, c-IAP1	baculoviral IAP repeat containing 2
BLK	XM_005562580.1	MGC10442	BLK proto-oncogene, Src family tyrosine kinase
BLNK	XM_001100700.2	SLP65, Ly57, SLP-65, BLNK-s, BASH, bca	B-cell linker
BST2	NM_001161666.1	CD317, tetherin	bone marrow stromal cell antigen 2
BTK	XM_002806330.1	AGMX1, IMD1, ATK, XLA, PSCTK1	Bruton tyrosine kinase
BTLA	XM_005548166.1	BTLA1, CD272	B and T lymphocyte associated
C10orf54	XM_015456211.1	SISP1, GI24, B7-H5, B7H5, VISTA	chromosome 10 open reading frame 54
C14orf166	XM_005561255.1	CGI-99, RLLM1, CLE, CLE7, LCRP369	chromosome 14 open reading frame 166
C1QA	XM_001101933.2		complement component 1, q subcomponent, A chain
C1QB	XM_005544500.1		complement component 1, q subcomponent, B chain
C1QB1	XM_001100940.2	HABP1, gC1Q-R, gC1qR, p32, SF2p32	complement component 1, q subcomponent binding protein
C1R	XM_005570002.1		complement component 1, r subcomponent
C1S	XM_005570001.1		complement component 1, s subcomponent
C2	XM_005553451.1		complement component 2
C3	XM_001091921.2	CPAMD1, ARMD9, C3a, C3b	complement component 3
C3AR1	XM_001113373.1	C3AR, AZ3B	complement component 3a receptor 1
C4A	XM_002805966.1	CPAMD2, C4S, CO4, C4, C4A3, C4A2, C4A4, C4A6, C4B, RG	complement component 4A (Rodgers blood group)
C4B	XM_005553435.1	CPAMD3, C4F, CO4, C4B1, C4B3, CH	complement component 4B (Chido blood group)
C4BPA	XM_005540679.1	C4BP	complement component 4 binding protein, alpha
C5	XM_001095750.2	CPAMD4, C5a, C5b	complement component 5
C5aR1	XM_005589697.2		complement C5a receptor 1
C6	XM_005556795.1		complement component 6
C7	XM_001085533.2		complement component 7
C8A	XM_001114403.1		complement component 8, alpha polypeptide
C8B	XM_001114456.2		complement component 8, beta polypeptide
C8G	XM_001117839.1		complement component 8, gamma polypeptide
C9	XM_001084671.2		complement component 9
CAMP	NM_001033509.1	CAP18, FALL39, FALL-39, LL37	cathelicidin antimicrobial peptide
CARD9	XM_001095549.2		caspase recruitment domain family member 9
CASP1	XM_001094943.2	IL1BC, ICE	caspase 1
CASP10	XM_001097804.2	MCH4	caspase 10
CASP2	XM_001087704.2	NEDD2, ICH1, PPP1R57, MGC2181	caspase 2
CASP3	NM_001284835.1	CPP32, CPP32B, Yama, apopain	caspase 3
CASP8	XM_001091080.2	MCH5, MACH, FLICE, Casp-8	caspase 8
CCBP2	XM_005546797.1	ACKR2	atypical chemokine receptor 2
CCL1	NM_001032849.1	SCYA1, I-309, TCA3, P500, Sise	chemokine (C-C motif) ligand 1
CCL11	NM_001032874.1	SCYA11, eotaxin, MGC22554	chemokine (C-C motif) ligand 11
CCL13	XM_001113462.2	SCYA13, MCP-4, NCC-1, SCYL1, CKb10, MGC17134	chemokine (C-C motif) ligand 13
CCL15	XM_002800380.1	SCYA15, HCC-2, NCC-3, SCYL3, MIP-5, Lkn-1, MIP-1d, HMRP-2B	chemokine (C-C motif) ligand 15
CCL16	XM_001112513.2	SCYA16, NCC-4, SCYL4, LEC, HCC-4, LMC, LCC-1, CKb12, Mtn-1	chemokine (C-C motif) ligand 16
CCL17	XM_005592031.1	SCYA17, TARC, ABCD-2	chemokine (C-C motif) ligand 17
CCL18	NM_001032853.1	SCYA18, DC-CK1, PARC, AMAC-1, DCCK1, MIP-4, CKb7	chemokine (C-C motif) ligand 18

CCL19	NM_001032959.1	SCYA19, ELC, MIP-3b, exodus-3, Ckb11	chemokine (C-C motif) ligand 19
CCL2	NM_001032821.1	SCYA2, MCP1, MCP-1, MCAF, SMC-CF, GDCF-2, HC11, MGC9434	chemokine (C-C motif) ligand 2
CCL20	NM_001032854.1	SCYA20, LARC, MIP-3a, exodus-1, ST38, Ckb4	chemokine (C-C motif) ligand 20
CCL21	NM_001032855.1	SCYA21, SLC, exodus-2, TCA4, Ckb9, 6Ckine, ECL	chemokine (C-C motif) ligand 21
CCL22	XM_005592030.1	SCYA22, MDC, STCP-1, ABCD-1, DC/B-CK, A-152E5.1, MGC34554	chemokine (C-C motif) ligand 22
CCL23	NM_001032946.1	SCYA23, Ckb-8, MPIF-1, MIP-3, Ckb8	chemokine (C-C motif) ligand 23
CCL24	NM_001194459.1	SCYA24, Ckb-6, MPIF-2, eotaxin-2, MPIF2	chemokine (C-C motif) ligand 24
CCL26	XM_001109808.2	SCYA26, MIP-4alpha, eotaxin-3, IMAC, MIP-4a, TSC-1	chemokine (C-C motif) ligand 26
CCL3	NM_001034200.1	SCYA3, GOS19-1, LD78ALPHA, MIP-1-alpha	chemokine (C-C motif) ligand 3
CCL4	XM_005583502.1	LAG1, SCYA4, MIP-1-beta, Act-2, AT744.1	chemokine (C-C motif) ligand 4
CCL5	NM_001032850.1	D17S136E, SCYA5, RANTES, SIsd, TCP228, MGC17164	chemokine (C-C motif) ligand 5
CCL7	XM_001113381.2	SCYA6, SCYA7, MCP-3, NC28, FIC, MARC, MCP3	chemokine (C-C motif) ligand 7
CCL8	NM_001032851.1	SCYA8, MCP-2, HC14	chemokine (C-C motif) ligand 8
CCND3	XM_005553014.1		cyclin D3
CCR1	NM_001032858.1	SCYAR1, CMKBR1, CKR-1, MIP1aR, CD191	chemokine (C-C motif) receptor 1
CCR10	XM_001111554.2	GPR2	chemokine (C-C motif) receptor 10
CCR2	NM_001032806.1	CMKBR2, CC-CKR-2, CKR2, MCP-1-R, CD192, FUJ78302	chemokine (C-C motif) receptor 2
CCR3	NM_001047140.1	CMKBR3, CC-CKR-3, CKR3, CD193	chemokine (C-C motif) receptor 3
CCR4	XM_005545534.1	CC-CKR-4, CMKBR4, CKR4, k5-5, ChemR13, CD194	chemokine (C-C motif) receptor 4
CCR5	XM_005546902.1	CMKBR5, CKR-5, CC-CKR-5, CKR5, CD195, IDDM22	chemokine (C-C motif) receptor 5 (gene/pseudogene)
CCR6	NM_001032935.1	STRL22, CKR-L3, GPR-CY4, CMKBR6, GPR29, DRY-6, DCR2, BN-1, CD196	chemokine (C-C motif) receptor 6
CCR7	NM_001032884.1	CMKBR7, EB1, BLR2, CDw197, CD197	chemokine (C-C motif) receptor 7
CCR8	XM_001084047.2	CMKBR2, CMKBR8, CY6, TER1, CKR-L1, GPR-CY6, CDw198	chemokine (C-C motif) receptor 8
CCRL1	XM_005545781.1	ACKR4	atypical chemokine receptor 4
CCRL2	XM_001103165.2	HCR, CRAM-B, CKRX, CRAM-A, ACKR5	chemokine (C-C motif) receptor-like 2
CD14	NM_001130433.1		CD14 molecule
CD160	XM_005542122.1	BY55, NK1, NK28	CD160 molecule
CD163	XM_001118361.2	M130, MM130	CD163 molecule
CD164	XM_005551554.1	MUC-24, MGC-24, DFNA66	CD164 molecule
CD19	XM_001103043.2		CD19 molecule
CD1A	XM_005595551.1	CD1	CD1a molecule
CD1B	XM_005541341.1	CD1	CD1b molecule
CD1C	XM_005595545.2	CD1	CD1c molecule
CD1D	NM_001033114.1		CD1d molecule
CD1E	XM_005541337.1		CD1e molecule
CD2	NM_001283777.1	SRBC	CD2 molecule
CD207	XM_005575643.2	Langerin, CLEC4K	CD207 molecule
CD209	NM_001032870.1	DC-SIGN, CDSIGN, DC-SIGN1, CLEC4L	CD209 molecule
CD22	XM_001111493.1	SIGLEC-2, SIGLEC2	CD22 molecule
CD24	XM_005552236.1	CD24A	CD24 molecule
CD244	XM_001117630.2	2B4, NAIL, NKR2B4, Nmrk, SLAMF4	CD244 molecule
CD247	NM_001077423.1	CD3Z, CD3H, CD3Q	CD247 molecule
CD27	XM_001104337.2	TNFRSF7, S152, Tp55	CD27 molecule
CD274	NM_001083889.1	PD1L1G1, B7-H, B7H1, PD-L1, PDL1, B7-H1	CD274 molecule
CD276	XM_005559999.1	B7-H3, B7H3, B7RP-2	CD276 molecule
CD28	NM_001042641.2		CD28 molecule
CD34	XM_005540699.1		CD34 molecule
CD36	NM_001032913.1	SCARB3, GPIV, FAT, GP4, GP3B	CD36 molecule
CD38	XM_005554514.1		CD38 molecule
CD3D	NM_001287688.1	T3D	CD3d molecule
CD3E	NM_001283615.1		CD3e molecule
CD3EAP	XM_005589588.1	ASE-1, CAST, PAF49	CD3e molecule associated protein
CD3G	NM_001283910.1		CD3g molecule
CD4	NM_001042662.1		CD4 molecule
CD40	XM_001104255.1	TNFRSF5, p50, Bp50	CD40 molecule
CD40LG	NM_001032839.1	HIGM1, IMD3, TNFSF5, CD40L, TRAP, gp39, hCD40L, CD154	CD40 ligand
CD44	XM_005578207.1	MIC4, MDU2, MDU3, IN, MC56, Pgp1, CD44R, HCELL, CSPG8	CD44 molecule (Indian blood group)
CD46	NM_001195746.1	MIC10, MCP, TRA2.10, MGC26544, TLX	CD46 molecule
CD47	XM_005548232.2	MER6, IAP, OA3	CD47 molecule
CD48	XM_005541239.1	BCM1, BLAST, mCD48, hCD48, SLAMF2	CD48 molecule
CD5	XM_005578865.1	LEU1, T1	CD5 molecule
CD53	XM_005542401.1	MOX44, TSPAN25	CD53 molecule
CD55	XM_005540684.1	DAF, CR, TC, CROM	CD55 molecule (Cromer blood group)
CD58	XM_001112756.1	LFA3	CD58 molecule
CD59	XM_005578241.1	MIC11, MINI, MSK21, MIN2, MIN3, 16.3A5, EJ16, EJ30, EL32, G344, p18-20	CD59 molecule
CD6	XM_002799538.1	Tp120	CD6 molecule
CD68	XM_005582776.1	SCARD1, macroscialin, GP110, DKFZp686M18236, LAMP4	CD68 molecule
CD69	XM_005570089.2	CLEC2C	CD69 molecule
CD7	XM_001113810.2	GP40, LEU-9, TP41, Tp40	CD7 molecule
CD70	XM_005587716.1	CD27LG, TNFSF7, CD27L	CD70 molecule
CD74	XM_001099491.2	DHLA	CD74 molecule
CD79A	XM_005589419.1	IGA, MB-1	CD79a molecule
CD79B	XM_005584687.1	IGB, B29	CD79b molecule
CD80	NM_001042642.1	CD28LG, CD28LG1, B7.1, B7-1	CD80 molecule
CD81	XM_005576902.1	TAPA1, TAPA-1, TSPAN28	CD81 molecule
CD82	XM_005578126.1	ST6, KAI1, R2, IA4, TSPAN27	CD82 molecule
CD83	XM_005553991.1	HB15, BL11	CD83 molecule
CD86	NM_001042644.1	CD28LG2, B7.2, B7-2	CD86 molecule
CD8A	XM_001092778.2	CD8	CD8a molecule
CD8B	XM_005575360.1	CD8B1	CD8b molecule
CD9	XM_005569889.1	MIC3, BA2, P24, TSPAN29, MRP-1	CD9 molecule
CD96	XM_005548190.1	TACTILE	CD96 molecule
CD97	XM_002801104.1	ADGRE5	adhesion G protein-coupled receptor E5
CD99	XM_005592879.1	MIC2	CD99 molecule

CDC42	XM_005553127.1	G25K, CDC42Hs	cell division cycle 42
CDH5	XM_005592138.1	7B4, CD144	cadherin 5
CDKN1A	XM_005553160.1	CDKN1, P21, CIP1, WAF1, SDI1, CAP20, p21CIP1, p21Cip1/Waf1	cyclin-dependent kinase inhibitor 1A (p21, Cip1)
CEACAM1	XM_005589369.1	BGP, BGP1, CD66a	carcinoembryonic antigen related cell adhesion molecule 1
CEACAM3	XM_015442082.1	CGM1, CD66d	carcinoembryonic antigen related cell adhesion molecule 3
CEACAM6	XM_005589431.1	NCA, CD66c	carcinoembryonic antigen related cell adhesion molecule 6
CEACAM8	XM_005589367.1	CGM6, CD66b	carcinoembryonic antigen related cell adhesion molecule 8
CEBPB	XM_005569338.1	TCF5, LAP, CRP2, NFIL6, IL6DBP, C/EBP-beta	CCAAT/enhancer binding protein beta
CFB	XM_001113553.2	BFD, BF, H2-Bf	complement factor B
CFD	XM_001117186.2	DF, PFD, ADN	complement factor D (adipsin)
CFH	XM_001111875.2	HF, HF1, HF2, HUS, FHL1, ARMS1, ARMD4	complement factor H
CFI	XM_001087512.2	IF, FI, C3b-INa, KAF	complement factor I
CFL1	XM_005577224.2	CFL	cofilin 1
CFP	XM_005593429.1	PFC	complement factor properdin
CHIT1	XM_005540484.1	CHIT, CHI3	chitinase 1
CHUK	XM_005566180.1	TCF16, IKK1, IKK-alpha, IkbkA, NFKB1A, IKKA	conserved helix-loop-helix ubiquitous kinase
CIITA	XM_001103518.2	MHC2TA, C2TA, NLRA	class II, major histocompatibility complex, transactivator
CISH	XM_001097616.2	CIS, G18, CIS-1, SOCS	cytokine inducible SH2-containing protein
CLEC4A	XM_001113405.2	CLECSF6, DCIR, DDB27, CD367	C-type lectin domain family 4 member A
CLEC4E	XM_001118423.2	CLECSF9, mincle	C-type lectin domain family 4 member E
CLECSA	XM_001085243.2	CLECSF5, MDL-1	C-type lectin domain family 5 member A
CLEC6A	XM_005570039.1	CLECSF10, dectin-2	C-type lectin domain family 6 member A
CLEC7A	NM_001032943.1	CLECSF12, dectin-1, hDectin-1, CD369	C-type lectin domain family 7 member A
CLU	NM_001195474.1	CLI, APOJ, SGP-2, SP-40, TRPM-2, KUB1, CLU1, CLU2	clusterin
CMA1	NM_001285192.1		chymase 1, mast cell
CMKLR1	XM_005572139.1	RVER1	chemerin chemokine-like receptor 1
CR1	XM_002801945.1	CD35, KN	complement component 3b/4b receptor 1 (Knops blood group)
CR2	XM_002801946.1	CD21, C3DR	complement component 3d receptor 2
CRADD	XM_005571871.1	RAIDD	CASP2 and RIPK1 domain containing adaptor with death domain
CREB1	XM_001107192.2		cAMP responsive element binding protein 1
CRP	NM_001319393.1	PTX1	C-reactive protein, pentraxin-related
CSF1	XM_001090841.2	M-CSF, MCSF, MGC31930	colony stimulating factor 1
CSF1R	XM_001107711.2	FMS, C-FMS, CSFR, CD115	colony stimulating factor 1 receptor
CSF2	NM_001032949.1	GM-CSF, GMCSF	colony stimulating factor 2
CSF2RB	XM_001086084.2	IL3RB, ILSRB, CD131	colony stimulating factor 2 receptor beta common subunit
CSF3	XM_001095097.2	GCSF, G-CSF, C17orf33, MGC45931	colony stimulating factor 3
CSF3R	XM_005543945.1	CD114, GCSFR	colony stimulating factor 3 receptor
CTLA4	NM_001044739.1	CELIAC3, IDDM12, CD152, CD, GSE, CD28, ICOS	cytotoxic T-lymphocyte associated protein 4
CTNBN1	XM_005546748.1	CTNNB, beta-catenin, armadillo	catenin beta 1
CTSC	NM_001195651.1	PLS, PALS, DPP1	cathepsin C
CTSG	XM_005560993.1	CG	cathepsin G
CTSS	XM_005541969.1		cathepsin S
CUL9	XM_002808385.1	H7AP1, KIAA0708, PARC	cullin 9
CX3CL1	XM_005595727.1	SCYD1, NTN, C3Kine, ABCD-3, CX3C, CX3, fractalkine, neurotactin	chemokine (C-X3-C motif) ligand 1
CX3CR1	NM_001265871.1	GPR13, CMKBRLL1, CMKDR1, V28, CCR1	chemokine (C-X3-C motif) receptor 1
CXCL1	NM_001283494.1	MGSA, GRO1, FSP, SCYB1, GROa, MGSA-a, NAP-3	chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)
CXCL10	NM_001032892.1	INP10, SCYB10, IFI10, IP-10, crg-2, mob-1, C7, gIP-10	chemokine (C-X-C motif) ligand 10
CXCL11	XM_005555011.1	SCYB9B, SCYB11, H174, b-R1, I-TAC, IP-9	chemokine (C-X-C motif) ligand 11
CXCL12	NM_001032934.1	SDF1A, SDF1B, SDF1, SCYB12, SDF-1a, SDF-1b, PBSF, TLSF-a, TLSF-b, TPARI	chemokine (C-X-C motif) ligand 12
CXCL13	NM_001032880.1	SCYB13, BLC, BCA-1, BLR1L, ANGIE, ANGIE2	chemokine (C-X-C motif) ligand 13
CXCL2	XM_001092240.2	GRO2, SCYB2, GROB, MIP-2a, MGSA-b, CINC-2a	chemokine (C-X-C motif) ligand 2
CXCL3	NM_001032879.1	GRO3, SCYB3, GROg, MIP-2b, CINC-2b	chemokine (C-X-C motif) ligand 3
CXCL5	XM_001092000.3	SCYB5, ENA-78	chemokine (C-X-C motif) ligand 5
CXCL6	XM_005555086.1	SCYB6, GCP-2, CKA-3	chemokine (C-X-C motif) ligand 6
CXCL9	NM_001032936.1	CMK, MIG, SCYB9, Humig, crg-10	chemokine (C-X-C motif) ligand 9
CXCR1	NM_001040420.1	CMKAR1, IL8RA, CKR-1, CDw128a, CD181	chemokine (C-X-C motif) receptor 1
CXCR2	XM_001088762.2	IL8RB, CMKAR2, CD182	chemokine (C-X-C motif) receptor 2
CXCR3	XM_005593931.1	GPR9, CKR-L2, CMKAR3, IP10-R, MlgR, CD183	chemokine (C-X-C motif) receptor 3
CXCR4	NM_001042645.1	LESTR, NPY3R, HM89, NPY3R, D2S201E, fusin, HSY3RR, NPYR, CD184	chemokine (C-X-C motif) receptor 4
CXCR6	NM_001047141.1	TYMSTR, STRL33, BONZO, CD186	chemokine (C-X-C motif) receptor 6
CYBB	XM_001083654.2	CGD, GP91-PHOX, NOX2	cytochrome b-245, beta polypeptide
CYSLTR1	XM_005594006.1	CysLT1, CysLT(1), CYSLT1R	cysteinyl leukotriene receptor 1
CYSLTR2	XM_005585841.1	CysLT(2), CYSLT2R	cysteinyl leukotriene receptor 2
DAXX	XM_001109244.2	DAP6	death-domain associated protein
DDIT3	XM_005571332.1	CHOP10, GADD153, CHOP	DNA damage inducible transcript 3
DDX58	XM_005581558.1	RIG-I, FLJ13599, DKFZp434J1111	DEXD/H-box helicase 58
DEFA1	NM_001032862.1	DEF1, MRS, DEFA2, HNP-1	defensin alpha 1
DEFB1	XM_005562538.1	HBD-1, DEFB-1, DEFB101, HBD1, BD1, MGC51822	defensin beta 1
DEFB103A	XM_001083420.2	DEFB3, DEFB103, HBD-3, HBP-3, HBD3, HBP3, DEFB-3	defensin beta 103A
DEFB4A	XM_005562564.1	DEFB102, DEFB2, DEFB4, SAP1, HBD-2, DEFB-2	defensin beta 4A
DOCK9	XM_005586152.1	KIAA1058, ZIZ1	dedicator of cytokinesis 9
DPP4	NM_001039190.1	CD26, ADPC2, DPPIV	dipeptidyl peptidase 4
DUSP4	XM_005562972.1	HVH2, MKP-2, TYP	dual specificity phosphatase 4
EBI3	XM_001118027.2		Epstein-Barr virus induced 3
EDNRB	XM_001089047.2	HSCR2, HSCR, ETB	endothelin receptor type B
EGR1	XM_005557906.1	TIS8, GOS30, NGFI-A, KROX-24, ZIF-268, AT225, ZNF225	early growth response 1
EGR2	XM_005565755.1	KROX20	early growth response 2
EIF2A	XM_005546091.2	EIF-2A	eukaryotic translation initiation factor 2A
EIF2AK2	XM_015433780.1	PRKR, PKR, EIF2AK1, PPP1R83	eukaryotic translation initiation factor 2 alpha kinase 2
ELK1	XM_005593430.1		ELK1, member of ETS oncogene family
ENTPD1	XM_002805770.1	CD39, NTPDase-1, ATPDase, SPG64	ectonucleoside triphosphate diphosphohydrolase 1
EOMES	XM_005545584.1	TBR2	emesodermin
ETS1	XM_005580142.1	EWSR2, FLJ10768, ETS-1	v-ets avian erythroblastosis virus E26 oncogene homolog 1

EWSR1	XM_005567685.1	EWS	EWS RNA binding protein 1
F13A1	XM_001096669.1	F13A	coagulation factor XIII A chain
FADD	XM_005576969.1	MORT1, GIG3	Fas associated via death domain
FAS	NM_001032933.1	FAS1, APT1, TNFRSF6, CD95, APO-1	Fas cell surface death receptor
FASLG	NM_001032838.1	APT1LG1, TNFSF6, FasL, CD178	Fas ligand
FCAR	NM_001039950.1	CD89	Fc fragment of IgA receptor
FCER1A	XM_005541313.1	FCE1A	Fc fragment of IgE receptor Ia
FCER1G	XM_005541196.1		Fc fragment of IgE receptor Ig
FCGR1A	NM_001284040.1	CD64, CD64A	Fc fragment of IgG receptor Ia
FCGR2A	XM_001118066.2	FCG2, FCGR2A1, FCGR2, CD32, CD32A, IGFR2, CDw32	Fc fragment of IgG receptor Ia
FCGR2B	XM_005541161.1	FCG2, FCGR2, CD32, CD32B	Fc fragment of IgG receptor IIb
FCGR3	NM_001283192.1		Fc Gamma receptor 3
FCGRT	XM_001115276.2	FCRN, alpha-chain	Fc fragment of IgG receptor and transporter
FEZ1	NM_001261621.2	UNC-76	fasciculation and elongation protein zeta 1
FKBP5	XM_005553215.1	FKBP51, FKBP5A, PPIase, P54, Ptg-10	FK506 binding protein 5
FLT1	XM_001117928.2	FLT, VEGFR1	fms related tyrosine kinase 1
FLT3LG	XM_005589911.1		fms related tyrosine kinase 3 ligand
FN1	XM_001083548.2	MSF, CIG, LETS, GFND2, FINC	fibronectin 1
FOS	NM_001098399.1	c-fos, AP-1	FBJ murine osteosarcoma viral oncogene homolog
FOXJ1	XM_005585050.1	FKHL13, HFH-4, HFH4	forkhead box J1
FOXP3	NM_001032918.1	IPEX, JM2, XPID, AIID, PIDX, DIETER, SCURFIN	forkhead box P3
FPR2	XM_005590140.1	FPRL1, LXA4R, HM63, FPRH2, FMLPX, FPR2A, FMLP-R-II, ALXR	formyl peptide receptor 2
FUT5	XM_005587664.1	FUC-TV	fucosyltransferase 5
FXYD2	XM_005579768.1	ATP1G1, HOMG2, MGC12372	FXYD domain containing ion transport regulator 2
FYN	XM_005551607.1	SYN, SLK, MGC45350	FYN proto-oncogene, Src family tyrosine kinase
GATA3	XM_005564600.1	HDR	GATA binding protein 3
GBP1	XM_005542801.1		guanylate binding protein 1
GFI1	XM_005542722.1	ZNF163, GFI1A, GFI-1	growth factor independent 1 transcription repressor
GNAQ	XM_005581977.1	G-ALPHA-q, GAQ	guanine nucleotide binding protein (G protein), q polypeptide
GNAS	XM_005569452.1	GNAS1, NESP55, NESP, GNASXL, GPSA, SCG6, SgVI	GNAS complex locus
GNB1	XM_005545044.1		guanine nucleotide binding protein (G protein), beta polypeptide 1
			guanine nucleotide binding protein (G protein), gamma transducing activity polypeptide 1
GNGT1	XM_005550208.1	GNG1	granulysin
GNLY	XM_005575397.1	LAG2, NKG5, LAG-2, D2S69E, TLA519	granulysin
GP1BB	XM_015149714.1	CD42c, GPIIbbeta	glycoprotein Ib platelet beta subunit
GPI	XM_005588784.2	AMF, NLK	glucose-6-phosphate isomerase
GPR183	XM_005586155.1	EBI2	G protein-coupled receptor 183
GRB2	XM_001095326.2	NCKAP2	growth factor receptor bound protein 2
GTF3C1	XM_005591522.1	TFIIIC220	general transcription factor IIIC subunit 1
GZMA	XM_001097639.2	HFSP, CTLA3	granzyme A
GZMB	XM_005560998.1	CTLA1, CSPB, CCPI, CGL-1, CSP-B, CGL1, CTSLG1, HLP, SECT	granzyme B
GZMH	XM_005560994.1	CTSLG2, CGL-2, CCP-X, CTLA1, CSP-C	granzyme H
GZMK	XM_005556895.1	TRYP2, PRSS	granzyme K
GZMM	XM_005595770.1	MET1, LMET1	granzyme M
HAMP	XM_005588836.1	LEAP-1, HEPC, HFE2B, LEAP1	hepcidin antimicrobial peptide
HAVCR2	XM_005558381.1	Tim-3, TIM3, FLJ14428, TIMD3, CD366	hepatitis A virus cellular receptor 2
HDAC4	XM_005574802.1	BDMR, KIAA0288, HDAC-A, HDACA, HD4, HA6116, HDAC-4	histone deacetylase 4
HFE	XM_005553872.1	HLA-H	hemochromatosis
			hypoxia inducible factor 1, alpha subunit (basic helix-loop-helix transcription factor)
HIF1A	XM_005561440.1	MOP1, HIF-1alpha, PASD8, HIF1, bHLHe78	
HLA-A	NM_001171838.1		major histocompatibility complex, class I, A
HLA-B	NM_001114964.1	AS	major histocompatibility complex, class I, B
HLA-C	NM_001048245.1	HLA-JY3, D6S204, PSORS1	major histocompatibility complex, class I, C
HLA-DMA	XM_005553355.1	D6S222E, RING6	major histocompatibility complex, class II, DM alpha
HLA-DMB	XM_002803688.1	D6S221E, RING7	major histocompatibility complex, class II, DM beta
HLA-DOB	XM_005553370.1		major histocompatibility complex, class II, DO beta
HLA-DPA1	NM_001048247.1	HLA-DP1A	major histocompatibility complex, class II, DP alpha 1
HLA-DPB1	XM_005553343.1	HLA-DP1B	major histocompatibility complex, class II, DP beta 1
HLA-DQA1	NM_001285343.1	HLA-DQA, CELIAC1	major histocompatibility complex, class II, DQ alpha 1
HLA-DQB1	NM_001283172.1	HLA-DQB, IDDM1, CELIAC1	major histocompatibility complex, class II, DQ beta 1
HLA-DRA	NM_001134298.1	HLA-DRA1	major histocompatibility complex, class II, DR alpha
HLA-DRB1	NM_001284641.1	HLA-DR1B	major histocompatibility complex, class II, DR beta 1
HMG1	NM_001283356.1	HMG1, HMG3, SBP-1, DKFZp686A04236	high mobility group box 1
HMG2	XM_005556312.1	HMG2	high mobility group box 2
HMG1	XM_005548677.1	HMG14, FLJ27265, FLJ31471, MGC104230, MGC117425	high mobility group nucleosome binding domain 1
HRAS	XM_005576732.1	HRAS1	Harvey rat sarcoma viral oncogene homolog
HSD11B1	XM_005540709.1	HSD11B, HSD11, SDR26C1	hydroxysteroid (11-beta) dehydrogenase 1
HSH2D	XM_005588318.1	ALX, HSH2, FLJ14886	hematopoietic SH2 domain containing
HSPB1	NM_001260949.2	HSP27, HSP28, Hs.76067, Hsp25, CMT2F	heat shock protein family B (small) member 1
HSPB2	XM_005579610.1	Hs.78846, MKBP	heat shock protein family B (small) member 2
ICAM1	NM_001047135.1	BB2, CD54	intercellular adhesion molecule 1
ICAM2	NM_001195389.1	CD102	intercellular adhesion molecule 2
ICAM3	NM_001195749.1	CDW50, ICAM-R, CD50	intercellular adhesion molecule 3
ICAM4	XM_001100946.2	LW, CD242	intercellular adhesion molecule 4 (Landsteiner-Wiener blood group)
ICAM5	XM_001115985.2	TLCN, TLN	intercellular adhesion molecule 5
ICOS	XM_005574018.1	AILIM, CD278	inducible T-cell co-stimulator
ICOSLG	XM_002803112.1	ICOSL, KIAA0653, GL50, B7-H2, B7RP-1, B7H2, B7RP1, ICOS-L, CD275	inducible T-cell co-stimulator ligand
IDO1	NM_001077483.1	IDO, INDO	indoleamine 2,3-dioxygenase 1
IDO2	XM_001095833.2	INDOL1	indoleamine 2,3-dioxygenase 2
IFI16	XM_005541319.1	IFNGIP1, PYHIN2	interferon, gamma-inducible protein 16
IFI35	XM_001112861.2	IFP35	interferon induced protein 35
IFI44	XM_005542938.1	MTAP44, p44, TLDC5	interferon induced protein 44
IFIH1	NM_001047123.1	MDA-5, Hlcl, MDA5, IDDM19	interferon induced, with helicase C domain 1
IFIT1	NM_001287726.1	G10P1, IFI56, IFNA1, GARG-16	interferon induced protein with tetratricopeptide repeats 1

IFIT2	XM_001086302.2	IFI54, G10P2, IFI-54, ISG-54K, cig42, GARG-39	interferon induced protein with tetratricopeptide repeats 2
IFIT3	XM_005565907.1	IFIT4, ISG60, RIG-G, CIG-49, IFI60, GARG-49, IRG2	interferon induced protein with tetratricopeptide repeats 3
IFITM1	XM_005576718.1	IFI17, 9-27, CD225	interferon induced transmembrane protein 1
IFNA1/13	XM_005581618.1	IFNA1, IFN, IFN-ALPHA	interferon, alpha 1; interferon, alpha 13
IFNA2	NM_001135794.1	IFNA, IFN-alphaA	interferon, alpha 2
IFNA4	XM_005581627.2	MGC142200, IFN-alpha4a	interferon, alpha 4
IFNAR1	XM_001092098.1	IFNAR, IFRC	interferon alpha and beta receptor subunit 1
IFNAR2	XM_001092342.2	IFNABR	interferon alpha and beta receptor subunit 2
IFNB1	NM_001135795.1	IFNB, IFB, IFF	interferon, beta 1, fibroblast
IFNG	NM_001287657.1		interferon, gamma
IFNGR1	NM_001266300.2	IFNGR, CD119	interferon gamma receptor 1
IFNGR2	XM_005548806.2	IFNGT1, AF-1	interferon gamma receptor 2 (interferon gamma transducer 1)
IGF2R	XM_002803958.1	CD222, MPRI, MPR1, CIMPR, M6P-R	insulin like growth factor 2 receptor
IKBKAP	XM_005581114.1	DYS, IKAP, TOT1, ELP1, IKI3	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein
IKKB	XM_001096913.2	IKK2, NFKBKB, IKK-beta, IKKB	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
IKBKE	XM_005540634.1	IKKE, IKK-i, KIAA0151	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase epsilon
IKBKG	XM_005595004.1	IP2, IP1, IKK-gamma, NEMO, Fip3p, FIP-3, FIP3, ZC2HC9	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase gamma
IKZF1	XM_005549595.1	ZNFN1A1, hik-1, LyF-1, Hs.54452, IKAROS, PPP1R92	IKAROS family zinc finger 1
IKZF2	XM_001083114.2	ZNFN1A2, Helios	IKAROS family zinc finger 2
IKZF3	XM_005584045.1	ZNFN1A3, Aiolos	IKAROS family zinc finger 3
IL10	XM_005540653.1	CSIF, TGIF, IL10A, IL-10	interleukin 10
IL10RA	XM_001092736.2	IL10R, HIL-10R, CDW210A, CD210a, CD210	interleukin 10 receptor subunit alpha
IL10RB	XM_005548811.1	CRFB4, D21S58, D21S66, CRF2-4, CDW210B, IL-10R2	interleukin 10 receptor subunit beta
IL11	XM_005595782.1	IL-11, AGIF	interleukin 11
IL11RA	XM_005581441.1		interleukin 11 receptor subunit alpha
IL12A	NM_001044734.1	NKSF1, CLMF, IL-12A, p35, NFSK	interleukin 12A
IL12B	NM_001044725.1	NKSF2, CLMF, IL-12B, NKSF, CLMF2	interleukin 12B
IL12RB1	XM_001115186.2	IL12RB, CD212	interleukin 12 receptor subunit beta 1
IL12RB2	XM_001094235.1		interleukin 12 receptor subunit beta 2
IL13	NM_001032929.1	P600, IL-13, ALRH, BHR1, MGC116786, MGC116788, MGC116789	interleukin 13
IL13RA1	XM_002806369.1	IL-13Ra, NR4, CD213a1	interleukin 13 receptor subunit alpha 1
IL15	NM_001044731.1	IL-15, MGC9721	interleukin 15
IL16	NM_001032808.1	LCF, IL-16, prIL-16, HsT19289, FLJ42735, FLJ16806	interleukin 16
IL17A	XM_005552759.1	CTLA8, IL17, IL-17A, IL-17	interleukin 17A
IL17B	XM_001106071.2	IL-17B, ZCYTO7, IL-20, MGC138900, MGC138901, NIRF	interleukin 17B
IL17F	XM_001106517.2	IL-17F, ML-1, ML1	interleukin 17F
IL17RA	XM_005568062.1	IL17R, hIL-17R, IL-17RA, CDw217, CD217	interleukin 17 receptor A
IL18	XM_005579633.1	IGIF, IL1F4, IL-1g, IL-18	interleukin 18
IL18R1	XM_002799354.1	IL1RRP, IL-1Rrp, CD218a	interleukin 18 receptor 1
IL18RAP	XM_005575166.1	AcPL, CD218b	interleukin 18 receptor accessory protein
IL19	XM_002801950.1	IL-19, MDA1, ZMDA1, IL-10C, NG.1	interleukin 19
IL1A	NM_001042757.1	IL1, IL1F1, IL-1A, IL1-ALPHA	interleukin 1 alpha
IL1B	NM_001042756.1	IL1F2, IL-1B, IL1-BETA	interleukin 1 beta
IL1R1	XM_005575155.1	IL1R, IL1RA, D2S1473, CD121A	interleukin 1 receptor, type I
IL1R2	NM_001047134.1	IL1RB, CD121b	interleukin 1 receptor, type II
IL1RAP	NM_001032960.1	IL-1RacP, IL1R3, C3orf13	interleukin 1 receptor accessory protein
IL1RL1	XM_005575158.1	ST2, FIT-1, ST2L, ST2V, DER4, T1, IL33R	interleukin 1 receptor like 1
IL1RL2	XM_005575151.1	IL1R- <i>rp</i> 2, IL1RRP2	interleukin 1 receptor like 2
IL1RN	XM_005575305.1	IL1RA, ICIL-1RA, IL1F3, IRAP, IL-1RN, MGC10430	interleukin 1 receptor antagonist
IL2	NM_001284699.1	IL-2, TCGF	interleukin 2
IL20	XM_001084726.2	ZCYTO10, IL10D, IL-20	interleukin 20
IL21	XM_005555864.1	Za11, IL-21	interleukin 21
IL21R	XM_001094102.2	CD360	interleukin 21 receptor
IL22	NM_001194724.1	ILTIF, IL-21, zcyto18, IL-TIF, IL-D110, TIFa, TIFIL-23, IL-22, MGC79382, MGC79384	interleukin 22
IL22RA2	XM_001099782.2	CRF2-S1, IL-22BP	interleukin 22 receptor subunit alpha 2
IL23A	NM_001194669.1	SGRF, IL23P19, IL-23, IL-23A, P19	interleukin 23 subunit alpha
IL23R	XM_001093896.2	IL-23R	interleukin 23 receptor
IL26	XM_001117154.2	AK155, IL-26	interleukin 26
IL27	XM_001097165.2	IL30, IL-27, p28, IL27p28, IL-27A, IL27A, MGC71873	interleukin 27
IL28A	XM_005589169.1	IFNL2	interferon lambda 2
IL28B	XM_001086865.1	IFNL3	interferon lambda 3
IL29	XM_001085768.2	IFNL1	interferon lambda 1
IL2RA	NM_001032917.1	IL2R, IDDM10, CD25	interleukin 2 receptor subunit alpha
IL2RB	XM_001085792.2	IL15RB, CD122	interleukin 2 receptor subunit beta
IL2RG	NM_001035529.1	SCIDX1, IMD4, CIDX, CD132	interleukin 2 receptor subunit gamma
IL3	NM_001101734.1	IL-3, MULTI-CSF, MCGF, MGC79398, MGC79399	interleukin 3
IL33	XM_005581767.2	C9orf26, DVS27, DKFZp586H0523, NF-HEV, IL1F11	interleukin 33
IL4	NM_001032904.1	BSF1, IL-4, BCGF1, BCGF-1, MGC79402	interleukin 4
IL4R	XM_001093763.2	CD124	interleukin 4 receptor
IL5	XM_005557730.1	IL-5, EDF, TRF	interleukin 5
IL5RA	XM_005547648.1	IL5R, CDw125, CD125	interleukin 5 receptor subunit alpha
IL6	NM_001042733.1	IFNB2, IL-6, BSF2, HGF, HSF	interleukin 6
IL6R	XM_005541663.1	CD126	interleukin 6 receptor
IL6ST	XM_005556924.1	GP130, CD130	interleukin 6 signal transducer
IL7	XM_005563593.1	IL-7	interleukin 7
IL7R	NM_001284908.1	CD127	interleukin 7 receptor
IL8	NM_001032965.1	CXCL8	interleukin 8/C-X-C motif chemokine ligand 8
IL9	XM_001110897.2	IL-9, HP40, P40	interleukin 9
ILF3	XM_001102411.2	NF90, MPHOSPH4, MPP4, DRBP76, NFAR-1	interleukin enhancer binding factor 3
IRAK1	XM_002806456.1	IRAK, pelle	interleukin 1 receptor associated kinase 1
IRAK2	XM_001090790.2		interleukin 1 receptor associated kinase 2
IRAK3	XM_001117080.2	IRAK-M	interleukin 1 receptor associated kinase 3

IRAK4	NM_001136101.1	NY-REN-64	interleukin 1 receptor associated kinase 4
IRF1	XM_001104048.1	MAR	interferon regulatory factor 1
IRF3	NM_001135797.1		interferon regulatory factor 3
IRF4	XM_005554181.1	MUM1, LSIRF	interferon regulatory factor 4
IRF5	XM_005550729.1		interferon regulatory factor 5
IRF7	NM_001136100.1		interferon regulatory factor 7
IRF8	XM_005592710.1	ICSBP1, IRF-8, ICSBP	interferon regulatory factor 8
IRGC	XM_005589461.2	IRGC1, Iigp5, CINEMA	immunity-related GTPase family, cinema
IRGM	XM_005558886.1	IRGM1, LRG47, LRG-47, IFI1	immunity-related GTPase family, M
ISG20	XM_005560453.2	HEM45, CD25	interferon stimulated exonuclease gene 20kDa
ITGA2B	XM_001114526.2	GP2B, CD41B, CD41, PPP1R93	integrin subunit alpha 2b
ITGA4	XM_001100929.2	CD49D, CD49d	integrin subunit alpha 4
ITGA5	XM_001110116.2	FNRA, CD49e	integrin subunit alpha 5
ITGA6	XM_001086200.2	CD49f	integrin subunit alpha 6
ITGAE	XM_005583162.1	CD103, HUMINAE	integrin subunit alpha E
ITGAL	XM_001100800.2	CD11A, LFA-1	integrin subunit alpha L
ITGAM	XM_005591740.1	CR3A, CD11B, MAC-1, CD11b	integrin subunit alpha M
ITGAX	XM_005591741.1	CD11C, CD11c	integrin subunit alpha X
ITGB1	XM_002805609.1	FNRB, MSK12, MDF2, CD29, GPIIA	integrin subunit beta 1
ITGB2	XM_005548517.1	CD18, MFI7, LFA-1, MAC-1	integrin subunit beta 2
ITLN1	XM_005541233.1	ITLN, FLJ20022, LFR, HL-1, hintL	intelectin 1 (galactofuranose binding)
ITLN2	XM_005545159.1	HL-2	intelectin 2
JAK1	XM_005543157.1	JAK1B, JAK1A, JTK3	Janus kinase 1
JAK2	XM_005581792.1	JTK10	Janus kinase 2
JAK3	XM_001115037.2	L-JAK, JAKL, LJAK, JAK3_HUMAN, JAK-3	Janus kinase 3
JUN	XM_005543232.1	c-Jun, AP-1	jun proto-oncogene
KCNJ2	XM_005584811.1	Kir2.1, IRK1, LQT7	potassium voltage-gated channel subfamily J member 2
KEAP1	XM_001105867.2	KIAA0132, MGC10630, MGC1114, MGC20887, MGC4407, MGC9454, INrf2, KLHL19	kelch like ECH associated protein 1
KIR2DL4	XM_005595312.1	103AS, 15.212, CD158D	killer cell immunoglobulin like receptor, two Ig domains and long cytoplasmic tail 4
KIR3DL1	NM_001193463.1	KIR, cl-2, NKB1, cl-11, nkat3, NKB1B, AMB11, CD158e1/2, CD158E1, CD158e2	killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 1
KIR3DL2	XM_005595311.1	cl-5, nkat4, nkat4a, nkat4b, CD158K	killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 2
KIR3DL3	XM_005590338.1	KIRC1, KIR3DL7, KIR4A, CD158z	killer cell immunoglobulin like receptor, three Ig domains and long cytoplasmic tail 3
KIR3DS1	XM_005595313.1	nkat10	killer cell immunoglobulin like receptor, three Ig domains and short cytoplasmic tail 1
KIT	XM_005555273.1	PBT, CD117, SCFR, C-Kit	KIT proto-oncogene receptor tyrosine kinase
KLRB1	XM_005570085.1	NKR, CD161, NKR-P1, NKR-P1A, hNKR-P1A, CLEC5B	killer cell lectin like receptor B1
KLRC1	NM_001284177.1	NGG2, NKG2-A, NKG2-B, CD159a	killer cell lectin like receptor C1
KLRC2	XM_005596017.1	NKG2-C, CD159c	killer cell lectin like receptor C2
KLRC3	XM_005595216.1	NKG2-E	killer cell lectin like receptor C3
KLRD1	NM_001032828.1	CD94	killer cell lectin like receptor D1
KLRF1	NM_001285324.1	CLEC5C, NKp80	killer cell lectin like receptor F1
KLRF2	XM_005570092.1	NKp65	killer cell lectin like receptor F2
KLRG1	XM_005570060.1	MAFA, 2F1, MAFA-L, CLEC15A	killer cell lectin like receptor G1
KLRG2	XM_005550917.1	FLJ44186, CLEC15B	killer cell lectin like receptor G2
KLRK1	NM_001283284.1	D12S2489E, NKG2D, KLR, NKG2-D, CD314	killer cell lectin like receptor K1
KNG1	XM_001101685.2	KNG, BDK, BK	kininogen 1
LAG3	XM_005569954.1	CD223	lymphocyte activating 3
LAIR1	XM_005590317.1	CD305	leukocyte associated immunoglobulin like receptor 1
LAIR2	XM_005590334.1	CD306	leukocyte associated immunoglobulin like receptor 2
LAMP3	XM_005546488.1	LAMP, TSC403, DC-LAMP, DCLAMP, CD208	lysosomal associated membrane protein 3
LCK	XM_002802327.1		LCK proto-oncogene, Src family tyrosine kinase
LCP2	XM_005558492.1	SLP76, SLP-76	lymphocyte cytosolic protein 2
LEF1	XM_005555635.1	TCF1ALPHA, TCF10, TCF7L3	lymphoid enhancer binding factor 1
LGALS3	XM_005561313.1	LGALS2, MAC-2, GALIG	lectin, galactoside-binding, soluble, 3
LIF	XM_005567631.1	CDF, DIA, HILDA	leukemia inhibitory factor
LILRA1	NM_001040670.1	LIR-6, CD85i, LIR6	leukocyte immunoglobulin like receptor A1
LILRA2	XM_005596068.1	LIR-7, ILT1, CD85h, LIR7	leukocyte immunoglobulin like receptor A2
LILRA3	NM_001040675.1	CD85e, HM31, HM43, ILT6, "leukocyte Ig-like receptor A3", LIR-4, LIR4	leukocyte immunoglobulin like receptor A3
LILRA4	XM_005590289.1	ILT7, CD85g	leukocyte immunoglobulin like receptor A4
LILRA5	XM_005590290.1	LILRB7, ILT11, LIR9, CD85, CD85f	leukocyte immunoglobulin like receptor A5
LILRA6	NM_001040674.1	LILRB6, ILT8, CD85b	leukocyte immunoglobulin like receptor A6
LILRB1	NM_001040672.1	LIR-1, ILT2, MIR-7, CD85, LIR1, CD85j	leukocyte immunoglobulin like receptor B1
LILRB2	XM_015441717.1	LIR-2, ILT4, MIR-10, LIR2, CD85d, MIR10	leukocyte immunoglobulin like receptor B2
LILRB3	XM_015125531.1	LIR-3, HL9, ILT5, LIR3, CD85a	leukocyte immunoglobulin like receptor B3
LILRB4	NM_001040676.1	LIR-5, ILT3, HM18, LIR5, CD85k	leukocyte immunoglobulin like receptor B4
LILRB5	XM_001083886.2	LIR-8, LIR8, CD85c	leukocyte immunoglobulin like receptor B5
LIMK1	XM_005595495.1	LIMK	LIM domain kinase 1
LITAF	XM_005591267.1	PIG7, SIMPLE, FLJ38636, TP53I7	lipopolysaccharide-induced TNF factor
LTA	NM_001047148.1	TNFB, TNFSF1, LT	lymphotoxin alpha
LTB	NM_001047150.1	TNFC, p33, TNFSF3	lymphotoxin beta
LTB4R	XM_001114016.2	P2RY7, GPR16, CMKRL1, BLTR, P2Y7, LTB4R1	leukotriene B4 receptor
LTB4R2	XM_001113942.2	BLTR2, BLT2, JULF2, NOP9	leukotriene B4 receptor 2
LTBR	XM_005569894.1	D12S370, TNFCR, TNFR-RP, TNFR2-RP, TNF-R-III, TNFRSF3	lymphotoxin beta receptor
LTF	XM_005546908.1	HLF2	lactotransferrin
LTK	XM_005559246.1	TYK1	leukocyte receptor tyrosine kinase
LY96	NM_001130432.1	MD-2	lymphocyte antigen 96
MAF	XM_005592863.1	c-MAF	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog
MAFF	XM_005567311.1	hMAff	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog F
MAFG	XM_005585281.1	MGC13090, MGC20149	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog G
MAFK	XM_005548989.1	P18, NFE2U	v-maf avian musculoaponeurotic fibrosarcoma oncogene homolog K
MALT1	XM_005586570.1	MLT, PCASP1	MALT1 paracaspase

MAP2K1	XM_005559865.1	PRKMK1, MEK1, MAPKK1	mitogen-activated protein kinase kinase 1
MAP2K4	XM_001114292.2	SERK1, MEK4, JNKK1, PRKMK4, MKK4	mitogen-activated protein kinase kinase 4
MAP2K6	NM_001261706.1	PRKMK6, MEK6, MKK6, SAPKK3, MAPKK6	mitogen-activated protein kinase kinase 6
MAP3K1	XM_002804368.1	MEKK1, MEKK, MAPKKK1	mitogen-activated protein kinase kinase kinase 1, E3 ubiquitin protein ligase
MAP3K5	XM_002803926.1	MEKK5, MAPKKK5, ASK1	mitogen-activated protein kinase kinase kinase 5
MAP3K7	XM_005552337.1	TAK1, MEKK7	mitogen-activated protein kinase kinase kinase 7
MAP3K9	XM_005561663.1	MLK1, PRKE1, MEKK9	mitogen-activated protein kinase kinase kinase 9
MAP4K1	XM_001082963.2	HPK1	mitogen-activated protein kinase kinase kinase kinase 1
MAP4K2	XM_005595670.1	RAB8IP, GCK, BL44	mitogen-activated protein kinase kinase kinase kinase 2
MAP4K4	XM_005575143.1	HGK, NIK, FLH21957	mitogen-activated protein kinase kinase kinase kinase 4
MAPK1	XM_001089600.1	PRKM2, PRKM1, ERK, ERK2, p41mapk, MAPK2	mitogen-activated protein kinase 1
MAPK11	XM_001112524.2	PRKM11, p38-2, p38Beta, SAPK2	mitogen-activated protein kinase 11
MAPK14	XM_001112423.2	CSPB1, CSBP1, CSBP2, PRKM14, p38, Mxi2, PRKM15	mitogen-activated protein kinase 14
MAPK3	XM_002802443.1	PRKM3, ERK1, p44mapk, p44erk1	mitogen-activated protein kinase 3
MAPK8	XM_005565179.1	PRKM8, JNK, JNK1, SAPK1	mitogen-activated protein kinase 8
MAPKAPK2	XM_005540646.1		mitogen-activated protein kinase-activated protein kinase 2
MAPKAPK5	XM_001102910.2	PRAK	mitogen-activated protein kinase-activated protein kinase 5
MARCO	XM_001083118.2	SCARA2	macrophage receptor with collagenous structure
MASP1	XM_005545446.1	CRARF, PRSS5, MASP	mannan-binding lectin serine peptidase 1 (C4/C2 activating component of Ra-reactive factor)
MASP2	XM_001118815.2	MASP1P1	mannan-binding lectin serine peptidase 2
MAVS	XM_005568426.2	VISA, KIAA1271, IPS-1, Cardif	mitochondrial antiviral signaling protein
MAX	NM_001285216.1	bHLHd4, bHLHd5, bHLHd6, bHLHd7, bHLHd8	MYC associated factor X
MBL2	NM_001105535.1	MBL, COLEC1	mannose binding lectin 2
MBP	XM_001098960.2		myelin basic protein
MCL1	NM_001266501.2	BCL2L3, Mcl-1	myeloid cell leukemia 1
MEF2A	XM_005560599.1	RSRFC4, RSRFC9	myocyte enhancer factor 2A
MEF2BNB	XM_005588524.1	BORCS8	BLOC-1 related complex subunit 8
MEF2C	XM_001086519.1		myocyte enhancer factor 2C
MEF2D	XM_005541443.1		myocyte enhancer factor 2D
MIF	NM_001283697.1	GLIF, GIF	macrophage migration inhibitory factor (glycosylation-inhibiting factor)
MKNK1	XM_005543476.1	MNK1	MAP kinase interacting serine/threonine kinase 1
MME	XM_001105564.1	CALLA, CD10, NEP	membrane metallo-endopeptidase
MMP3	XM_001098400.2	STMY1, STMY	matrix metallopeptidase 3
MMP9	XM_001104871.2	CLG4B	matrix metallopeptidase 9
MPPED1	NM_001283221.1	C22orf1, 239AB, FAM1A	metallophosphoesterase domain containing 1
MR1	NM_001284968.1	HLA5	major histocompatibility complex, class I-related
MRC1	XM_005564743.1	MRC1L1, CLEC13D, CD206, bA54119.1, CLEC13DL	mannose receptor, C type 1
MS4A1	XM_005577709.1	CD20, B1, Bp35, MS4A2	membrane spanning 4-domains A1
MS4A2	XM_005577736.1	FCER1B, IGER, APY, MS4A1	membrane spanning 4-domains A2
MSR1	XM_001097884.2	SCARA1, CD204	macrophage scavenger receptor 1
MUC1	XM_001115634.2	PUM, MCKD1, CD227, PEM, ADMCKD, ADMCKD1, MCKD, MCD	mucin 1, cell surface associated
MX1	NM_001079693.1	IFI-78K, MxA	MX dynamin-like GTPase 1
MX2	XM_005548647.1	MXB	MX dynamin-like GTPase 2
MYC	NM_001142873.1	c-Myc, bHLHe39, MYCC	v-myc avian myelocytomatosis viral oncogene homolog
MYD88	NM_001130681.1		myeloid differentiation primary response 88
MYL2	XM_005572261.1	CMH10	myosin light chain 2
NCAM1	XM_005579655.1	NCAM, CD56	neural cell adhesion molecule 1
NCF4	XM_005567397.1	p40phox, SH3PXD4	neutrophil cytosolic factor 4
NCR1	XM_005590349.1	LY94, NK-p46, NKP46, CD335	natural cytotoxicity triggering receptor 1
NEFL	XM_005562862.1	NFL, CMT1F, CMT2E, NF68, PPP1R110	neurofilament, light polypeptide
NFATC1	XM_001087929.2	NF-ATC, NFATc, NFAT2	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 1
NFATC2	XM_005569356.1	NF-ATP, NFATp, NFAT1	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 2
NFATC3	XM_005592343.1	NFAT4, NFATX	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 3
NFATC4	XM_005560983.1	NFAT3	nuclear factor of activated T-cells, cytoplasmic, calcineurin-dependent 4
NFE2L2	XM_005573572.1	NRF2	nuclear factor, erythroid 2 like 2
NFIL3	XM_001101854.1	IL3BP1, E4BP4, NFIL3A, NF-IL3A	nuclear factor, interleukin 3 regulated
NFKB1	XM_005555555.1	KBF1, p105, NFKB-p50, p50, NF-kappaB, NFkappaB, NF-kB1	nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
NFKB2	XM_001104566.2	LYT-10, p52, p105, NF-kB2	nuclear factor of kappa light polypeptide gene enhancer in B-cells 2 (p49/p100)
NFKBIA	NM_001284932.1	NFKBI, IKBA, MAD-3, IkappaBalpha	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, alpha
NFKBIZ	XM_005548255.1	MAIL, FLJ34463, INAP	nuclear factor of kappa light polypeptide gene enhancer in B-cells inhibitor, zeta
NLRP3	XM_005539576.1	C1orf7, CIAS1, AGTAVPRL, AII, AVP, FCAS, FCU, NALP3, PYPAF1, MWS, CLR1.1	NLR family, pyrin domain containing 3
NOD1	XM_005549884.1	CARD4, NLRC1, CLR7.1	nucleotide binding oligomerization domain containing 1
NOD2	XM_005591903.1	IBD1, CARD15, BLAU, CD, PSORAS1, CLR16.3, NLRC2	nucleotide binding oligomerization domain containing 2
NOS2	XM_005583198.1	NOS2A, iNOS, NOS, HEP-NOS	nitric oxide synthase 2
NOTCH1	XM_001116824.1	TAN1	notch 1
NOTCH2	XM_001114248.2		notch 2
NOX1	XM_001090025.2	NOH1, NOH-1, MOX1, GP91-2	NADPH oxidase 1
NR3C1	XM_005558115.1	GRL, GR	nuclear receptor subfamily 3 group C member 1
NTSE	XM_00552431.1	NT5, CD73, eN, eNT, CALJA	5'-nucleotidase ecto
NUP107	XM_005571495.1	NUP84	nucleoporin 107kDa
OAS1	NM_001083949.1	OIAS, OIASI, IFI-4	2'-5'-oligoadenylate synthetase 1
OAS2	XM_005572308.1		2'-5'-oligoadenylate synthetase 2
OAS3	XM_005572307.1		2'-5'-oligoadenylate synthetase 3
OASL	XM_005572424.1	TRIP14, p59OASL	2'-5'-oligoadenylate synthetase-like
OXER1	XM_005576013.1	GPCR, TG1019, GPR170	oxoeicosanoid (OXE) receptor 1
PAX5	XM_005581286.1	BSAP	paired box 5
PDCD1	NM_001114358.1	SLEB2, CD279, PD1, hSLE1, PD-1	programmed cell death 1
PDCD1LG2	NM_001083599.1	PD-L2, Btdc, PDL2, bA574F11.2, CD273, B7-DC	programmed cell death 1 ligand 2
PDCD2	XM_005551355.1	ZMYND7, RP8	programmed cell death 2
PDGFA	XM_005548950.1	PDGF1, PDGF-A	platelet derived growth factor subunit A

PDGFB	XM_005567244.1	SIS, SSV	platelet derived growth factor subunit B
PDGFRB	XM_005558242.1	PDGFR, JTK12, CD140b, PDGFR1	platelet derived growth factor receptor beta
PECAM1	XM_005584700.1	CD31	platelet/endothelial cell adhesion molecule 1
PIGR	XM_001083307.2		polymeric immunoglobulin receptor
PIK3C2G	XM_002807975.1		phosphatidylinositol-4-phosphate 3-kinase catalytic subunit type 2 gamma
PLA2G2A	XM_005544567.1	PLA2B, PLA2L	phospholipase A2 group IIA
PLA2G2E	XM_001094364.1		phospholipase A2 group IIE
PLA2G4A	XM_005540257.1	PLA2G4, cPLA2-alpha	phospholipase A2 group IVA
PLA2G6	XM_002798388.1	iPLA2, PNPLA9, PARK14, iPLA2beta, NBIA2	phospholipase A2 group VI
PLAU	XM_005565444.1	URK, UPA	plasminogen activator, urokinase
PLAUR	XM_001106634.2	URKR, UPAR, CD87	plasminogen activator, urokinase receptor
PLCB1	XM_001116017.1	KIAA0581, PLC-I, PLC154	phospholipase C beta 1
PMCH	XM_005572033.1	MCH	pro-melanin concentrating hormone
PML	NM_001042434.1	MYL, TRIM19, RNF71	promyelocytic leukemia
POU2F2	XM_002808195.1	OTF2, OCT2	POU class 2 homeobox 2
PPARG	NM_001032860.1	PPARG1, PPARG2, NR1C3, PPARgamma	peroxisome proliferator activated receptor gamma
PPIA	NM_001032809.1	CYPA	peptidylprolyl isomerase A
PPP1R12B	XM_001106168.2	MYPT2, MGC87886, MGC131980, PP1bp55	protein phosphatase 1 regulatory subunit 12B
PRDM1	XM_001087708.2	BLIMP1, PRDI-BF1	PR domain 1
PRF1	XM_005565623.1	PFP, P1, HPLH2	perforin 1
PRG2	XM_005577863.1	MBP, BMPG	proteoglycan 2, bone marrow (natural killer cell activator, eosinophil granule major basic protein)
PRKCA	XM_005584740.1	PKCA	protein kinase C alpha
PRKCB	XM_001095880.2	PRKCB2, PKCB, PRKCB1	protein kinase C beta
PRKCD	XM_001083320.1		protein kinase C delta
PSMB10	XM_005592304.1	MECL1, LMP10, MGC1665, beta2i	proteasome subunit beta 10
PSMB5	NM_001260845.1	X, MB1	proteasome subunit beta 5
PSMB7	XM_001083368.2		proteasome subunit beta 7
PSMB8	XM_005553359.1	LMP7, RING10, D6S216E, PSMB5i, beta5i	proteasome subunit beta 8
PSMB9	NM_001283167.1	LMP2, RING12, beta1i, PSMB6i	proteasome subunit beta 9
PSMC2	XM_005550431.1	MSS1, S7, Nbla10058	proteasome 26S subunit, ATPase 2
PSMD7	XM_001102147.2	S12, P40, MOV34, Rpn8	proteasome 26S subunit, non-ATPase 7
PTAFR	XM_005544241.1		platelet-activating factor receptor
PTGDR2	XM_005577702.1	GPR44, CRTH2, CD294, DP2	prostaglandin D2 receptor 2
PTGER1	XM_005588249.1	EP1	prostaglandin E receptor 1
PTGER2	XM_005561261.1	EP2	prostaglandin E receptor 2
PTGER3	XM_005543034.1	EP3	prostaglandin E receptor 3
PTGER4	XM_005556783.1	EP4	prostaglandin E receptor 4
PTGFR	XM_005542941.1	FP	prostaglandin F receptor
PTGIR	XM_005589661.1	IP	prostaglandin I2 (prostacyclin) receptor (IP)
PTGS1	XM_005580874.1	COX1, PGHS-1, PTGHS	prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase)
PTGS2	XM_001107538.2	COX2	prostaglandin-endoperoxide synthase 2
PTK2	XM_001093060.2	FAK, FADK, FAK1, PPP1R71	protein tyrosine kinase 2
PTPN2	XM_005587248.1	PTPT, TCELLPTP, TC-PTP, TCPTP	protein tyrosine phosphatase, non-receptor type 2
PTPN22	XM_005542274.1	PTPN8, Lyp, Lyp1, Lyp2	protein tyrosine phosphatase, non-receptor type 22
PTPN6	XM_005569995.1	HCP, HCPH, PTP-1C, SHP-1, SHP1	protein tyrosine phosphatase, non-receptor type 6
PTPRC	XM_005540333.1	CD45, LCA, T200, GP180	protein tyrosine phosphatase, receptor type C
PYCARD	XM_005591734.1	TMS-1, CARD5, ASC	PYD and CARD domain containing
RAC1	NM_001283802.1	TC-25, p21-Rac1, Rac-1	ras-related C3 botulinum toxin substrate 1 (rho family, small GTP binding protein Rac1)
RAF1	XM_005547856.1	Raf-1, c-Raf, CRAF	Raf-1 proto-oncogene, serine/threonine kinase
RAG1	XM_001084631.2	RNF74, MGC43321	recombination activating gene 1
RAG2	XM_005578160.1		recombination activating gene 2
RAPGEF2	XM_001093090.2	PDZGEF1, PDZ-GEF1, RA-GEF, DKFZP586O1422, KIAA0313	Rap guanine nucleotide exchange factor 2
RARRES3	XM_001118373.2	TIG3, HRASLS4	retinoic acid receptor responder (tazarotene induced) 3
RELA	XM_005577248.1	NFKB3, p65	v-rel avian reticuloendotheliosis viral oncogene homolog A
RELB	XM_001104559.2	REL-B	v-rel avian reticuloendotheliosis viral oncogene homolog B
REPS1	XM_005551982.1		RALBP1 associated Eps domain containing 1
RHOA	XM_001094831.2	ARH12, ARHA, RhoA, Rho12, RHOH12	ras homolog family member A
RIP1	XM_005554158.1	RIP	receptor interacting serine/threonine kinase 1
RIPK2	XM_005563661.1	RICK, RIP2, CARDIAK, CARD3	receptor interacting serine/threonine kinase 2
RNASEL	XM_005540173.2	RNS4, PRCA1	ribonuclease L
ROCK2	XM_005576551.1		Rho associated coiled-coil containing protein kinase 2
RORC	XM_002801778.1	RZRG, RORG, NR1F3, TOR	RAR related orphan receptor C
RPS6KA5	XM_001088246.2	MSK1, RLPK	ribosomal protein S6 kinase, 90kDa, polypeptide 5
RRAD	XM_005592186.1	REM3, RAD	Ras-related associated with diabetes
RUNX1	XM_005548734.1	AML1, CBFA2, PEBP2A2, AMLCR1	runt related transcription factor 1
S100A8	XM_005541787.1	CAGA, CFAG, P8, MRP8, 60B8AG, CGLA	S100 calcium binding protein A8
S100A9	XM_005541789.1	CAGB, CFAG, P14, MIF, NIF, LIAG, MRP14, MAC387, 60B8AG, CGLB	S100 calcium binding protein A9
S1PR1	XM_005542570.1	EDG1, edg-1, D1S3362, CD363	sphingosine-1-phosphate receptor 1
SELE	XM_005539941.1	ELAM1, ELAM, ESEL, CD62E	selectin E
SELL	XM_005539939.1	LYAM1, LNHR, LSEL, LAM1, LAM-1, hLHRc, Leu-8, Lyam-1, PLNHR, CD62L	selectin L
SELPLG	XM_005572152.1	PSGL-1, CD162	selectin P ligand
SERPING1	XM_001092271.2	C1NH, C1IN, C1-INH, HAE1, HAE2	serpin peptidase inhibitor, clade G (C1 inhibitor), member 1
SH2D1A	NM_001032837.1	IMD5, LYP, XLP, MTCP1, DSHP, XLPD, EBVS, SAP	SH2 domain containing 1A
SHC1	XM_005541642.1	SHC, p66, ShcA	SHC (Src homology 2 domain containing) transforming protein 1
SIGIRR	XM_005576724.1	TIR8	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain
SIGLEC1	XM_005568446.2	SN, SIGLEC-1, CD169, FLJ00051, FLJ00055, FLJ00073, FLJ32150, dJ1009E24.1, sialoadhesin	sialic acid binding Ig like lectin 1
SIRPA	XM_015457667.1	ALPHA-1	signal regulatory protein alpha
SKI	XM_001086434.1		SKI proto-oncogene
SLAMF1	XM_001117605.2	SLAM, CD150	signaling lymphocytic activation molecule family member 1



SLAMF6	XM_005541247.1	KALI, NTBA, KALIB, Ly108, SF2000, NTB-A, CD352	SLAM family member 6
SLAMF7	XM_001117618.2	CRACC, 19A, CS1, CD319	SLAM family member 7
SLC2A1	XM_005543699.1	GLUT1, GLUT, HTLVR, CSE, DYT18, DYT9	solute carrier family 2 (facilitated glucose transporter), member 1
SMAD2	XM_005586756.1	MADH2, MADR2, JV18-1	SMAD family member 2
SMAD3	XM_005559876.1	MADH3, JV15-2, Hst17436	SMAD family member 3
SMAD5	XM_005557849.1	MADH5, Dwfc, JV5-1	SMAD family member 5
SMAD7	XM_005586745.1	MADH8, MADH7	SMAD family member 7
SMPD3	XM_005592346.1	NSMASE2	sphingomyelin phosphodiesterase 3
SOCS1	XM_005591262.1	SOCS-1, SSI-1, JAB, TIP3, Cish1	suppressor of cytokine signaling 1
SOCS3	NM_001194326.1	SSI-3, CIS3, SOCS-3, Cish3	suppressor of cytokine signaling 3
SPP1	XM_001093307.2	BNSP, OPN, BSP1, ETA-1	secreted phosphoprotein 1
SRC	XM_005568964.1	SRC1, ASV, c-src	SRC proto-oncogene, non-receptor tyrosine kinase
STAT1	NM_001261614.1	STAT91, ISGF-3	signal transducer and activator of transcription 1
STAT2	XM_001115072.2	STAT113	signal transducer and activator of transcription 2
STAT3	XM_005584241.1	APRF	signal transducer and activator of transcription 3 (acute-phase response factor)
STAT4	XM_001082561.2		signal transducer and activator of transcription 4
STAT5A	XM_001109557.2	STAT5, MGF	signal transducer and activator of transcription 5A
STAT5B	XM_001109317.2		signal transducer and activator of transcription 5B
STAT6	XM_005571286.1	D12S1644, IL-4-STAT	signal transducer and activator of transcription 6, interleukin-4 induced
SYK	XM_005582224.1		spleen tyrosine kinase
SYT17	XM_005591356.1		synaptotagmin 17
TAGAP	XM_005551523.1	FLJ32631, IDDM21, ARHGAP47	T-cell activation RhoGTPase activating protein
TAL1	XM_005543455.1	TCLS, SCL, bHLHa17	T-cell acute lymphocytic leukemia 1
TAP1	XM_005553361.1	ABC2B, PSF1, RING4, D6S114E	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
TAP2	XM_002803985.1	ABC3B, PSF2, RING11, D6S217E	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
TAPBP	XM_005553311.1	TAPA	TAP binding protein (tapasin)
TARP	XM_015133689.1		TCR Gamma alternate reading frame protein
TBK1	XM_001116924.2	NAK	TANK-binding kinase 1
TBX21	XM_005583510.1	TBLYM, T-bet	T-box 21
TBXA2R	XM_005587515.1		thromboxane A2 receptor
TCF4	XM_005586613.1	SEF2-1B, ITF2, bHLHb19, E2-2	transcription factor 4
TCF7	XM_005595987.1	TCF-1	transcription factor 7 (T-cell specific, HMG-box)
TFRC	XM_005545258.1	CD71, TFR1, p90	transferrin receptor
TGFB1	XM_005589339.1	TGFB, DPD1, CED, TGFbeta	transforming growth factor beta 1
TGFB2	XM_005540874.1		transforming growth factor beta 2
TGFB3	XM_005561843.1	ARVD1, ARVD	transforming growth factor beta 3
TGFB1	XM_005557841.1	CSD3, LCD1, CSD1, CSD2, BIGH3, CDB1, CDGG1	transforming growth factor beta induced
TGFBR1	XM_001112590.2	MSSE, ESS1, ALK-5, ACVRLK4	transforming growth factor beta receptor I
TGFBR2	XM_005545564.1	MFS2	transforming growth factor beta receptor II
THBS1	XM_001093770.2	TSP1, THBS, TSP, THBS-1, TSP-1	thrombospondin 1
THY1	XM_005579921.1	CD90	Thy-1 cell surface antigen
TICAM1	NM_001287328.1	TRIF, TICAM-1, MGC35334, PRVTIRB	toll like receptor adaptor molecule 1
TIGIT	XM_005548101.1	VSIG9, VSTM3, FLJ39873, DKFZp667A205	T-cell immunoreceptor with Ig and ITIM domains
TIRAP	NM_001130435.1	Mal, wyatt	toll-interleukin 1 receptor (TIR) domain containing adaptor protein
TLR1	NM_001130424.1	rsc786, KIAA0012, CD281	toll like receptor 1
TLR2	NM_001130425.1	TIL4, CD282	toll like receptor 2
TLR3	NM_001036685.1	CD283	toll like receptor 3
TLR4	NM_001037092.1	hToll, CD284, TLR-4, ARMD10	toll like receptor 4
TLR5	NM_001130429.1	SLEB1, TIL3, FLJ10052, MGC126430, MGC126431	toll like receptor 5
TLR6	NM_001130430.1	CD286	toll like receptor 6
TLR7	NM_001130426.1		toll like receptor 7
TLR8	NM_001130427.1	CD288	toll like receptor 8
TLR9	NM_001130431.1	CD289	toll like receptor 9
TMEM173	XM_005557935.1	FLJ38577, NET23	transmembrane protein 173
TNF	NM_001047149.1	TNFA, TNFSF2, DIF, TNF-alpha	tumor necrosis factor
TNFAIP3	NM_001283816.1	A20, OTUD7C	TNF alpha induced protein 3
TNFAIP6	XM_001083111.2	TSG6, TSG-6	TNF alpha induced protein 6
TNFRSF11A	XM_005586643.1	PDB2, LOH18CR1, RANK, CD265, FEO	tumor necrosis factor receptor superfamily member 11a
TNFRSF13B	XM_005582995.1	TAC1, CD267, IGAD2	tumor necrosis factor receptor superfamily member 13B
TNFRSF13C	XM_001101623.2	BAFFR, CD268	tumor necrosis factor receptor superfamily member 13C
TNFRSF14	NM_001043357.1	HVEM, ATAR, TR2, LIGHTR, HVEA, CD270	tumor necrosis factor receptor superfamily member 14
TNFRSF17	XM_001106826.2	BCMA, BCM, CD269, TNFRSF13A	tumor necrosis factor receptor superfamily member 17
TNFRSF18	XM_005545123.2	AITR, GITR, CD357	tumor necrosis factor receptor superfamily member 18
TNFRSF1B	XM_001105753.2	TNFR2, TNFBR, TNFR80, TNF-R75, TNF-R-II, p75, CD120b	tumor necrosis factor receptor superfamily member 1B
TNFRSF4	XM_005545122.1	TXGP1L, ACT35, OX40, CD134	tumor necrosis factor receptor superfamily member 4
TNFRSF8	XM_001118873.2	CD30, D1S166E, KI-1	tumor necrosis factor receptor superfamily member 8
TNFRSF9	XM_001096166.2	ILA, CD137, 4-1BB	tumor necrosis factor receptor superfamily member 9
TNFSF10	NM_001266034.1	TRAIL, Apo-2L, TL2, CD253	tumor necrosis factor superfamily member 10
TNFSF11	XM_005585744.1	TRANCE, RANKL, OPLG, ODF, CD254	tumor necrosis factor superfamily member 11
TNFSF12	NM_001205135.1	TWEAK, DR3LG, APO3L	tumor necrosis factor superfamily member 12
TNFSF13	XM_005582760.2	APRIL, CD256	tumor necrosis factor superfamily member 13
TNFSF13B	XM_005586224.1	TNFSF20, BAFF, THANK, BLYS, TALL-1, TALL1, CD257	tumor necrosis factor superfamily member 13b
TNFSF14	XM_015122635.1	LIGHT, LTg, HVEM-L, CD258	tumor necrosis factor superfamily member 14
TNFSF15	NM_001194132.1	TL1, VEGI, TL1A, VEGI192A, MGC129934, MGC129935	tumor necrosis factor superfamily member 15
TNFSF18	XM_005540011.2	AITRL, TL6, hGITRL	tumor necrosis factor superfamily member 18
TNFSF4	XM_005540021.1	TXGP1, OX-40L, gp34, CD252	tumor necrosis factor superfamily member 4
TNFSF8	XM_005580959.1	CD30LG, CD153	tumor necrosis factor superfamily member 8
TOLLIP	XM_005576837.1	IL-1RAcPIP	toll interacting protein
TP53	XM_005582787.1	p53, LFS1	tumor protein p53
TPSAB1	XM_005590832.2	TPSB1, TPS1, TPS2	tryptase alpha/beta 1
TRADD	XM_005592202.1	Hs.89862	TNFRSF1A-associated via death domain
TRAF1	XM_001095862.2	EBI6	TNF receptor associated factor 1
TRAF2	XM_005580376.1	TRAP3	TNF receptor associated factor 2

TRAF3	XM_005562258.1	CAP-1, CD40bp, CRAF1, LAP1	TNF receptor associated factor 3
TRAF4	XM_001107048.2	CART1, MLN62, RNF83	TNF receptor associated factor 4
TRAF5	XM_005540752.1	RNF84	TNF receptor associated factor 5
TRAF6	XM_005578173.1	RNF85	TNF receptor associated factor 6
TREM2	XM_005553065.1	TREM-2, Trem2a, Trem2b, Trem2c	triggering receptor expressed on myeloid cells 2
TSLP	XM_005557498.1		thymic stromal lymphopoietin
TWIST2	XM_005574801.1	DERMO1, Dermo-1, bHLHa39	twist family bHLH transcription factor 2
TYK2	XM_001101130.2	JTK1	tyrosine kinase 2
TYROBP	XM_005588917.1	PLOSL, DAP12, PLO-SL, KARAP	TYRO protein tyrosine kinase binding protein
UBE2L3	NM_001193593.1	UBCH7	ubiquitin conjugating enzyme E2L 3
USP9Y	XM_005593318.1	DFFRY	ubiquitin specific peptidase 9, Y-linked
VCAM1	XM_005542580.1	CD106	vascular cell adhesion molecule 1
VTN	XM_005583219.1	VN	vitronectin
XBP1	NM_001190861.1	XBP2	X-box binding protein 1
XC1L1	NM_001032947.1	LTN, SCYC1, LPTN, ATAC, SCM-1a, SCM-1	chemokine (C motif) ligand 1
XCR1	XM_001114260.1	GPR5, CXCR1	chemokine (C motif) receptor 1
ZAP70	XM_005575029.1	SRK, ZAP-70, STD	zeta chain of T cell receptor associated protein kinase 70kDa
ZBTB16	XM_005579695.1	ZNF145, PLZF	zinc finger and BTB domain containing 16
ZEB1	XM_005564912.2	TCF8, PPCD3, BZP, ZEB, AREB6, NIL-2-A, Zfhx1a, FECD6	zinc finger E-box binding homeobox 1
ZNF205	XM_005591044.1	ZNF210, Zfp13	zinc finger protein 205

#### Internal Reference Genes

ABCF1	XM_005553641.1	ABC50, EST123147	ATP binding cassette subfamily F member 1
ALAS1	XM_005547319.2	ALAS3, ALAS	5'-aminolevulinic synthase 1
DDX50	XM_005565684.2	GU2, MGC3199, GUB, RH-II/GuB	DEAD-box helicase 50
ERCC3	NM_001287632.1	XPB, BTF2, RAD25, TFIH, GTF2H	excision repair cross-complementation group 3
G6PD	XM_005595008.1	G6PD1	glucose-6-phosphate dehydrogenase
GUSB	XM_015447246.1		glucuronidase, beta
HDAC3	XM_015452048.1	RPD3, HD3, RPD3-2	histone deacetylase 3
HPRT1	NM_001283594.1	HPRT, HGPRT	hypoxanthine phosphoribosyltransferase 1
OAZ1	NM_001134900.1	OAZ, AZI, MGC138338	ornithine decarboxylase antizyme 1
POLR2A	XM_001118060.2	POLR2, POLRA, RPB1 THBGB1, SCYB7, TGB, NAP-2-L1, LA-PF4, MDGF, LDGF, Beta-TG, CTAP3, CXCL7, PBP, b-TG1,	polymerase (RNA) II (DNA directed) polypeptide A, 220kDa
PPBP	XM_005555081.1	TGB1, CTAPIII, NAP-2	pro-platelet basic protein
SDHA	XM_001094170.2	SDH2, FP, SDHF	succinate dehydrogenase complex flavoprotein subunit A
TBP	NM_001284983.1	GTF2D1, SCA17, TFIID	TATA-box binding protein
TRIM39	NM_001319626.1	RNF23	tripartite motif containing 39
TUBB	XM_005553615.2	OK/SW-cl.56, MGC16435, M40, Tubb5	tubulin beta class I
UBB	XM_015437369.1	MGC8385, FLJ25987	ubiquitin B

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