

nCounter® Mouse PanCancer Immune Profiling Panel - Gene and Probe Details			
Official Symbol	Accession	Alias or Previous Symbol	Official Full Name
A2m	NM_175628.3	A2mp	alpha-2-macroglobulin
Abca1	NM_013454.3	ABC-1 Abc1	ATP-binding cassette, sub-family A (ABC1), member 1
Abcb1a	NM_011076.1	Abcb4 Evi32 Mdr1a Mdr3 P-gp Pgp Pgy-3 Pgy3 mdr-3	ATP-binding cassette, sub-family B (MDR/TAP), member 1A
Abcg1	NM_009593.1	AW413978 Abc8 White	ATP-binding cassette, sub-family G (WHITE), member 1
Abl1	NM_009594.4	AI325092 AbI E430008G22Rik c-Abl	c-abl oncogene 1, non-receptor tyrosine kinase
Ada	NM_007398.3	-	adenosine deaminase
Adora2a	NM_009630.2	A2AAR A2aR AA2AR	adenosine A2a receptor
Aicda	NM_009645.2	Aid Arp2	activation-induced cytidine deaminase
Aire	NM_009646.1	-	autoimmune regulator (autoimmune polyendocrinopathy candidiasis ectodermal dystrophy)
Akt3	NM_011785.3	AI851531 D930002M15Rik Nmf350	thymoma viral proto-oncogene 3
Alcam	NM_009655.1	AI853494 BEN CD166 DM-GRASP MuSC SC1	activated leukocyte cell adhesion molecule
Ambp	NM_007443.3	AI194774 ASP HI-30 Intin4 ItiI UTI	alpha 1 microglobulin/bikunin
Amica1	NM_001005421.4	AMICA Crea7 Gm638	adhesion molecule, interacts with CXADR antigen 1
Angpt1	NM_009640.3	1110046O21Rik Ang-1 Ang1	angiopoietin 1
Angpt2	NM_007426.3	Agpt2 Ang-2 Ang2	angiopoietin 2
Anp32b	NM_130889.2	2410015B15Rik PAL31 PHAPI2a Ssp29	acidic (leucine-rich) nuclear phosphoprotein 32 family, member B
Anxa1	NM_010730.2	Anx-1 Anx-A1 C430014K04Rik Lpc-1 Lpc1	annexin A1
Apoe	NM_009696.3	AI255918	apolipoprotein E
App	NM_007471.2	Abeta Abpp Adap Ag Cvap E030013M08Rik betaApp	amyloid beta (A4) precursor protein
Arg1	NM_007482.3	AI AI256583 Arg-1 PGIF	arginase, liver
Arg2	NM_009705.2	AI AU022422	arginase type II
Atf1	NM_007497.3	-	activating transcription factor 1
Atf2	NM_001284371.1	Atf-2 CRE-BP Creb2 D130078H02Rik D18875 Tg(Gzma-Klra1)7Wum mXBP5330424L23Rik 5430428K15Rik AI852123 APG10 Agp10 Agp10i Agp10p Atg10i	activating transcription factor 2
Atg10	NM_025770.3	g10i	autophagy related 10
Atg12	NM_026217.1	4931423H11Rik A330058M13Rik Agp12i Atg12i	autophagy related 12
Atg16l1	NM_001205391.1	1500009K01Rik Agp16i Atg16i WDR30	autophagy related 16-like 1 (S. cerevisiae)
Atg5	NM_053069.5	2010107M05Rik 3110067M24Rik AW319544 Agp5i Atg5i C88337 Paddy	autophagy related 5
Atg7	NM_028835.1	1810013K23Rik Agp7 Agp7i Atg7i Gm21553	autophagy related 7
Atm	NM_007499.2	AI256621 C030026E19Rik	ataxia telangiectasia mutated homolog (human)
Axl	NM_009465.3	AI323647 Ark Tyro7 Ufo	AXL receptor tyrosine kinase
Batf	NM_016767.2	B-ATF SFA-2	basic leucine zipper transcription factor, ATF-like
Bax	NM_007527.3	-	BCL2-associated X protein
Bcl10	NM_009740.1	AI132454 BCL-10 C81403 CARMEN CIPER CLAP ME10 cE10	B cell leukemia/lymphoma 10
Bcl2	NM_009741.3	AW986256 Bcl-2 C430015F12Rik D630044D05Rik D830018M01Rik	B cell leukemia/lymphoma 2
Bcl2l1	NM_009743.4	Bcl(X)L Bcl-XL Bcl2l Bcl2l bcl-x bcl2-L-1	BCL2-like 1
Bcl6	NM_009744.3	Bcl5	B cell leukemia/lymphoma 6
Bid	NM_007544.3	2700049M22Rik AI875481 AU022477	BH3 interacting domain death agonist
Birc5	NM_009689.2	AAC-11 Api4 TIAP survivin40	baculoviral IAP repeat-containing 5
Blk	NM_007549.2	-	B lymphoid kinase
Blnk	NM_008528.4	BASH Bca Ly-57 Ly57 Lyw-57 SLP-65	B cell linker
Bmi1	NM_007552.4	AW546694 Bmi-1 Pcgf4	Bmi1 polycomb ring finger oncogene
Bst1	NM_009763.3	114/A10 A530073F09 BP-3 Bp3 Bsta1 CD157 Ly65	bone marrow stromal cell antigen 1
Bst2	NM_198095.2	2310015I10Rik Bst-2 C87040 CD317 DAMP-1 GREG	bone marrow stromal cell antigen 2
Btk	NM_013482.2	AI528679 xid	Bruton agammaglobulinemia tyrosine kinase
Btla	NM_001037719.2	A630002H24	B and T lymphocyte associated
C1qa	NM_007572.2	AI255395 C1q	complement component 1, q subcomponent, alpha polypeptide
C1qb	NM_009777.2	-	complement component 1, q subcomponent, beta polypeptide
C1qbp	NM_007573.2	AA407365 AA986492 D11Wsu182e HABP1 P32 gC1qBP	complement component 1, q subcomponent binding protein
C1ra	NM_023143.3	AI132558 C1r mC1rA	complement component 1, r subcomponent A
C1s1	NM_144938.2	-	complement component 2 (within H-2S)
C2	NM_013484.2	-	complement component 2 (within H-2S)
C3	NM_009778.2	AI255234 ASP HSE-MSF Plp	complement component 3
C3ar1	NM_009779.2	AZ3B C3AR HNFAG09	complement component 3a receptor 1
C4b	NM_009780.2	C4 Ss	complement component 4B (Chido blood group)
C5ar1	NM_007577.3	C5aR C5r1 Cd88 D7Msu1	complement component 5a receptor 1
C6	NM_016704.2	AW111623	complement component 6
C7	NM_016704.2	AW111623	complement component 6
C7	XM_356827.6	A530026G17 Gm1238	complement component 7
C8a	NM_146148.2	-	complement component 8, alpha polypeptide
C8b	NM_133882.2	4930439B20Rik AI595927	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	CAP18 Cnlp Cramp FALL39 MCLP	cathelicidin antimicrobial peptide
Card11	NM_175362.2	0610008L17Rik 2410011D02Rik BIMP3 CARMA1	caspace recruitment domain family, member 11
Card9	NM_001037747.1	Gm782	caspace recruitment domain family, member 9
Casp1	NM_009807.2	ICE I1bc	caspace 1
Casp3	NM_009810.2	A830040C14Rik AC-3 Apopain CASP-3 CC3 CPP-32 CPP32 Caspase-3 Lice SCA-1 Yama mldy	caspace 3
Casp8	NM_009812.2	CASP-8 FLICE MACH Mch5	caspace 8
Ccl1	NM_011329.2	BF534335 I-309 Scya1 Tca-3	chemokine (C-C motif) ligand 1
Ccl11	NM_011330.3	Scya11 eotaxin	chemokine (C-C motif) ligand 11
Ccl12	NM_011331.2	MCP-5 Scya12	chemokine (C-C motif) ligand 12
Ccl17	NM_011332.2	Abcd-2 Scya17 Scya17i Tarc	chemokine (C-C motif) ligand 17
Ccl19	NM_011888.2	CKb11 ELC MIP3B Scya19 exodus-3	chemokine (C-C motif) ligand 19
Ccl2	NM_011333.3	AI323594 HC11 JE MCAF MCP-1 MCP1 SMC-CF Scya2 Sigle	chemokine (C-C motif) ligand 2
Ccl20	NM_016960.1	CKb4 LARC MIP-3A MIP-3[a] MIP3A ST38 Scya20 exodus-1	chemokine (C-C motif) ligand 20

Ccl21a	NM_011124.4	6CKBAC2 6CKine ALP AW987545 CKb9 SCYA21a SLC Scya21 Scya21b Tca4 plt	chemokine (C-C motif) ligand 21A (serine)
Ccl22	NM_009137.2	ABCD-1 DCBCK MDC Scya22	chemokine (C-C motif) ligand 22
Ccl24	NM_019577.4	CKb-6 MPIF-2 Scya24	chemokine (C-C motif) ligand 24
Ccl25	NM_009138.3	A130072A22Rik AI852536 CKb15 Scya25 TECK	chemokine (C-C motif) ligand 25
Ccl26	NM_001013412.2	Ccl26l	chemokine (C-C motif) ligand 26
Ccl27a	NM_001048179.1	ALP AW558992 CTACK CTAK Ccl27 ESkine ILC PESKY Scya27 Scya27a	chemokine (C-C motif) ligand 27A
Ccl28	NM_020279.3	CCK1 MEC Scya28	chemokine (C-C motif) ligand 28
Ccl3	NM_011337.1	AI323804 GOS19-1 LD78alpha MIP-1alpha MIP1-(a) MIP1-alpha Mip1a Scya3	chemokine (C-C motif) ligand 3
Ccl4	NM_013652.1	AT744.1 Act-2 MIP-1B Mip1b Scya4	chemokine (C-C motif) ligand 4
Ccl5	NM_013653.3	MuRantes RANTES SISd Scya5 TCP228	chemokine (C-C motif) ligand 5
Ccl6	NM_009139.2	MRP-1 Scya6 c10	chemokine (C-C motif) ligand 6
Ccl7	NM_013654.2	MCP-3 Scya7 fic marc mcp3	chemokine (C-C motif) ligand 7
Ccl8	NM_021443.2	1810063B20Rik AB023418 HC14 MCP-2 Mcp2 Scya8	chemokine (C-C motif) ligand 8
Ccl9	NM_011338.2	CCF18 MRP-2 Scya10 Scya9	chemokine (C-C motif) ligand 9
Ccnd3	NM_007632.2	9230106B05Rik AA682053 AL024085 AW146355 C78795	cyclin D3
Ccr1	NM_009912.4	Cmkbr1 Mip-1a-R	chemokine (C-C motif) receptor 1
Ccr2	NM_009915.2	Cc-ckr-2 Ccr2a Ccr2b Ckr2 Ckr2a Ckr2b Cmkbr2 mJe-r	chemokine (C-C motif) receptor 2
Ccr3	NM_009914.4	CC-CKR3 CKR3 Cmkbr1I2 Cmkbr3	chemokine (C-C motif) receptor 3
Ccr4	NM_009916.2	C-C CKR-4 CHEMR1 Cmkbr4 LESTR Sdf1r	chemokine (C-C motif) receptor 4
Ccr5	NM_009917.5	AM4-7 CD195 Cmkbr5	chemokine (C-C motif) receptor 5
Ccr6	NM_001190333.1	CC-CKR-6 CCR-6 Cmkbr6 KY411	chemokine (C-C motif) receptor 6
Ccr7	NM_007719.2	CD197 Cdw197 Cmkbr7 EBI1 Ebi1h	chemokine (C-C motif) receptor 7
Ccr8	NM_007720.2	C-C C-C CKR-8 CC-CKR-8 CCR-8 CKR-8 Cmkbr8 mCCR8	chemokine (C-C motif) receptor 8
Ccr9	NM_009913.6	A130091K22Rik Cmkbr10 GPR-9-6	chemokine (C-C motif) receptor 9
Ccr12	NM_017466.4	1810047I05Rik Acr5 CCR11 Cmkbr1I2 E01 L-CCR	chemokine (C-C motif) receptor-like 2
Cd14	NM_009841.3	-	CD14 antigen
Cd160	NM_001163496.1	AU045688 By55	CD160 antigen
Cd163	NM_053094.2	CD163v2 CD163v3	CD163 antigen
Cd164	NM_016898.2	A115 A24 AA589639 AW540279 MGC-24 MSSP	CD164 antigen
Cd180	NM_008533.2	F630107B15 Ly78 RP105	CD180 antigen
Cd19	NM_009844.2	AW495831	CD19 antigen
Cd1d1	NM_007639.3	AI747460 CD1.1 Cd1a Cd1d Ly-38	CD1d1 antigen
Cd1d2	NM_007640.2	CD1.2 Cd1b Ly-38	CD1d2 antigen
Cd2	XM_006500959.1	LFA-2 Ly-37 Ly37	CD2 antigen
Cd200	NM_010818.3	Mox2 OX2	CD200 antigen
Cd200r1	NM_021325.3	CD200R Mox2r OX2R	CD200 receptor 1
Cd207	NM_144943.3	-	CD207 antigen
Cd209e	NM_130905.2	SIGNR4 mSIGNR4	CD209e antigen
Cd22	NM_001043317.2	A530093D23 Lyb-8 Lyb8	CD22 antigen
Cd244	NM_018729.2	2B4 C9.1 F730046O15Rik Ly90 NAIL NKR2B4 Nmrk SLAMF4 4930549I05Rik A430104F18Rik AW552088 Cd3 Cd3-eta Cd3-	CD244 natural killer cell receptor 2B4
Cd247	NM_001113391.2	zeta Cd3h Cd3z Cd3zeta T3z Tcrk Tcrz	CD247 antigen
Cd27	NM_001033126.2	S152 Tnfrsf7 Tp55	CD27 antigen
Cd274	NM_021893.2	A530045I16Rik B7h1 Pdc111 Pdc11lg1 Pdl1	CD274 antigen
Cd276	NM_133983.4	6030411F23Rik AU016588 B7RP-2 B7h3	CD276 antigen
Cd28	NM_007642.4	-	CD28 antigen
Cd33	NM_001111058.1	Siglec-3 gp67	CD33 antigen
Cd34	NM_001111059.1	AU040960	CD34 antigen
Cd36	NM_007643.3	FAT GPIV Scarb3	CD36 antigen
Cd37	NM_007645.4	Tspan26	CD37 antigen
Cd38	NM_007646.4	Cd38-rs1	CD38 antigen
Cd3d	NM_013487.2	T3d	CD3 antigen, delta polypeptide
Cd3e	NM_007648.4	AI504783 CD3 CD3epsilon T3e	CD3 antigen, epsilon polypeptide
Cd3eap	NM_145822.2	1190028F09 2610103M17Rik ASE-1 Ase1 CAST PAF49	CD3E antigen, epsilon polypeptide associated protein
Cd3g	NM_009850.2	Ctg-3 Ctg3 T3g	CD3 antigen, gamma polypeptide
Cd4	NM_013488.2	L3T4 Ly-4	CD4 antigen
Cd40	NM_011611.2	AI326936 Bp50 GP39 HIGM1 IGM IMD3 T-BAM TRAP Tnfrsf5 p50 CD154 CD40-L Cd40L HIGM1 IGM IMD3 Ly-62 Ly62 T-	CD40 antigen
Cd40lg	NM_011616.2	BAM TRAP Tnfrsf5 gp39	CD40 ligand
Cd44	NM_009851.2	AU023126 AW121933 AW146109 HERMES Ly-24 Pgp-1	CD44 antigen
Cd46	NM_010778.3	Mcp	CD46 antigen, complement regulatory protein
Cd47	NM_010581.3	9130415E20Rik AA407862 AI848868 AW108519 B430305P08Rik IAP Itgp AI449234 AW610730 BCM1 BLAST BLAST-1 BLAST1 Bcm-1 MEM-	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)
Cd48	NM_007649.4	102 SLAMF2 Sgp-60	CD48 antigen
Cd5	NM_007650.3	Ly-1 Ly-12 Ly-A Lyt-1	CD5 antigen
Cd53	NM_007651.3	AI323659 Ox-44 Tspan25	CD53 antigen
Cd55	NM_010016.2	Daf Daf-GPI Daf1 GPI-DAF	CD55 antigen
Cd59b	NM_181858.1	-	CD59b antigen
Cd6	NM_001037801.2	-	CD6 antigen
Cd63	NM_001042580.1	C75951 ME491 Tspan30	CD63 antigen
Cd68	NM_009853.1	Lamp4 Scard1 gp110	CD68 antigen
Cd69	NM_001033122.3	5830438K24Rik AI452015 AIM VEA	CD69 antigen
Cd7	NM_009854.1	-	CD7 antigen
Cd70	NM_011617.1	CD27LG Cd27l Tnfrsf7	CD70 antigen
Cd74	NM_001042605.1	CLIP DHLA HLADG Ia-GAMMA Ii	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)
Cd79a	NM_007655.3	Ig-alpha Iga Igalph Ly-54 Ly54 mb-1	CD79A antigen (immunoglobulin-associated alpha)
Cd79b	NM_008339.2	B29 Ig-beta Igb Igbeta	CD79B antigen
Cd80	NM_009855.2	B71 Cd28 Ly-53 Ly53 MIC17 TSA1	CD80 antigen

Cd81	NM_133655.2	Tapa-1 Tapa1 Tspan28	CD81 antigen
Cd83	NM_009856.2	-	CD83 antigen
Cd84	NM_001252472.1	A130013D22Rik CDw84 SLAMF5	CD84 antigen
Cd86	NM_019388.3	B7 B7-2 B7.2 B70 CLS1 Cd28 ETC-1 Ly-58 Ly58 MB7 MB7-2 TS/A-2	CD86 antigen
Cd8a	NM_001081110.2	BB154331 Ly-2 Ly-35 Ly-B Lyt-2	CD8 antigen, alpha chain
Cd8b1	NM_009858.2	Cd8b Ly-3 Ly-C Lyt-3	CD8 antigen, beta chain 1
Cd9	NM_007657.3	Tspan29	CD9 antigen
Cd96	NM_032465.2	170010912Rik Tactile	CD96 antigen
Cd97	NM_011925.1	AA409984 TM7LN1	CD97 antigen
Cd99	NM_025584.2	1110061M03Rik 2410026K10Rik D4 Pilir-I pilir-1	CD99 antigen
Cdh1	NM_009864.2	AA960649 E-cad Ecad L-CAM UVO Um	cadherin 1
Cdh5	NM_009868.3	7B4 AA408225 Cd144 VE-Cad VECD VEcad Vec	cadherin 5
Cdk1	NM_007659.3	Cdc2 Cdc2a p34<CDC2>	cyclin-dependent kinase 1
Cdkn1a	NM_007669.4	CAP20 CDK1 CIP1 Cdkn1 P21 SDI1 Waf1 mda6 p21Cip1 p21WAF Bgp Bgp1 C-CAM CD66a Cc1 Cea-1 Cea-7 Cea1 Cea7 Hv- 2 Hv2 MHVR MhVR1 Mhv-1 bb-	cyclin-dependent kinase inhibitor 1A (P21)
Ceacam1	NM_001039185.1	1 mCEA1 mmCGM1 mmCGM1a mmCGM2	carcinoembryonic antigen-related cell adhesion molecule 1
Cebpb	NM_009883.3	C/EBPbeta CRP2 IL-6DBP LAP LIP NF-IL6 NF-M Nfil6	CCAAT/enhancer binding protein (C/EBP), beta
Cfb	NM_008198.2	A1195813 A1255840 B Bf C2 Fb H2-Bf	complement factor B
Cfd	NM_013459.1	Adn DF	complement factor D (adipsin)
Cfh	NM_009888.3	Mud-1 NOM Sas-1 Sas1	complement component factor h
Cfi	NM_007686.2	-	complement component factor i
Cfp	NM_008823.3	BCFG Pfc	complement factor properdin
Chi3	NM_009892.2	A1505981 Chi3 3 ECF-L Ym1	chitinase-like 3
Chit1	NM_027979.1	2300002L19Rik	chitinase 1 (chitotriosidase)
Chuk	NM_001162410.1	A1256658 Chuk1 Fbx24 Fbxo24 IKBKA IKK1 Ikka NFKBKA	conserved helix-loop-helix ubiquitous kinase
Ciita	NM_007575.2	C2ta EG669998 Gm9475 1700001C14Rik 1810018M11Rik C32 CKLF1 CKLF3 CKLF4 CKLF5 Ckif2 Ckif 6 HSPC224 UCK-1	class II transactivator
Cklf	NM_029295.2	6 HSPC224 UCK-1	chemokine-like factor
Clec4a2	NM_001170332.1	Clec4a Clec5f6 DCIR Dcir1	C-type lectin domain family 4, member a2
Clec4n	NM_001190320.1	Clec6a Clec5f10 Nkl	C-type lectin domain family 4, member n
Clec5a	NM_001038604.1	Clec5f5 Ly100 MDL-1 Mdl1	C-type lectin domain family 5, member a
Clec7a	NM_020008.2	BGR Clec5f12 beta-GR	C-type lectin domain family 7, member a
Clu	NM_013492.2	A1893575 ApoJ Cli D14Ucla3 SP-40 Sgp-2 Sgp2 Sugp-2	clusterin
Cma1	NM_010780.2	MMCP-5 Mcp-5 Mcp5 Mcpt5	chymase 1, mast cell
Cmah	NM_001111110.2	-	cytidine monophospho-N-acetylneuraminic acid hydroxylase
Cmklr1	NM_008153.3	ChemR23 DEZ Gpcr27 mcmklr1	chemokine-like receptor 1
Cmpk2	NM_020557.4	1200004E04Rik TDKI Tyki	cytidine monophosphate (UMP-CMP) kinase 2, mitochondrial
Col1a1	NM_007742.3	Col1a-1 Cola-1 Cola1 Mov-13 Mov13	collagen, type I, alpha 1
Col3a1	NM_009930.1	AW550625 Col3a-1 MMS10-W Ms10w mKIAA4231	collagen, type III, alpha 1
Col4a1	NM_009931.2	Bru Col4a-1 Del(8)44H Raw Svc	collagen, type IV, alpha 1
Colec12	NM_130449.2	CL-P1 SRCL Scara4	collectin sub-family member 12
Cr2	NM_007758.2	C3DR CD21 CD35 Cr-1 Cr-2 Cr1	complement receptor 2
Creb1	NM_001037726.1	2310001E10Rik 3526402H21Rik AV083133 Creb Creb-1	cAMP responsive element binding protein 1
Creb5	NM_172728.2	Crebpa D430026C09Rik	cAMP responsive element binding protein 5
Crebbp	NM_001025432.1	AW558298 CBP CBP/p300 KAT3A p300/CBP	CREB binding protein
Crp	NM_007768.4	A1255847	C-reactive protein, pentraxin-related
Csf1	NM_001113530.1	C87615 Csfm MCSF op	colony stimulating factor 1 (macrophage)
Csf1r	NM_001037859.2	A1323359 CD115 CSF-1R Csfmr Fim-2 Fms M-CSF-R M-CSFR	colony stimulating factor 1 receptor
Csf2	NM_009969.4	Csfgm GMCSF Gm-CSF MGI-IGM	colony stimulating factor 2 (granulocyte-macrophage)
Csf2rb	NM_007780.4	A1848964 AIC2B Bc CDw131 Csf2rb1 Csfgmrb Il3r Il3rb Il3rb1 Il5rb	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
Csf3	NM_009971.1	Csf G-CSF MGI-IG	colony stimulating factor 3 (granulocyte)
Csf3r	NM_001252651.1	Cd114 Csfgr G-CSF-R G-CSFR	colony stimulating factor 3 receptor (granulocyte)
Cspg4	NM_139001.2	4732461B14Rik AN2 NG2	chondroitin sulfate proteoglycan 4
Ctla4	NM_009843.3	Cd152 Ctla-4 Ly-56	cytotoxic T-lymphocyte-associated protein 4
Ctsg	NM_007800.1	-	cathepsin G
Ctsh	NM_007801.2	AL022844	cathepsin H
Ctsl	NM_009984.3	1190035F06Rik Cts1 MEP fs nkt	cathepsin L
Ctss	NM_021281.2	-	cathepsin S
Ctsw	NM_009985.4	lymphopain	cathepsin W
Cx3cl1	NM_009142.3	AB030188 ABCD-3 A1848747 CX3C Cxc3 D8Bwg0439e Scyd1	chemokine (C-X3-C motif) ligand 1
Cx3cr1	NM_009987.3	-	chemokine (C-X3-C motif) receptor 1
Cxcl1	NM_008176.1	Fsp Gro1 KC Mgsa N51 Scyb1 gro	chemokine (C-X-C motif) ligand 1
Cxcl10	NM_021274.1	C7 CRG-2 INP10 IP-10 IP10 Ifi10 Scyb10 gIP-10 mob-1	chemokine (C-X-C motif) ligand 10
Cxcl11	NM_019494.1	Cxc11 H174 I-tac Ip9 Itac Scyb11 Scyb9b b-R1 betaR1	chemokine (C-X-C motif) ligand 11
Cxcl12	NM_021704.3	Pbsf Scyb12 Sdf1 Tlsf Tpar1	chemokine (C-X-C motif) ligand 12
Cxcl13	NM_018866.2	4631412M08Rik ANGIE2 Angie BCA-1 BLC BLR1L Scyb13 1110031L23Rik 1200006I23Rik A1414372 BMAC BRAK KS1 Kec MIP-	chemokine (C-X-C motif) ligand 13
Cxcl14	NM_006517307.1	2g MIP2gamma NJAC Scyb14 bolekine	chemokine (C-X-C motif) ligand 14
Cxcl15	NM_011339.2	Il8 Scyb15 lungkine weche 0910001K24Rik AV290116 BB024863 CXCL16v1 CXCL16v2 SR-	chemokine (C-X-C motif) ligand 15
Cxcl16	NM_023158.6	PSOX Zmynd15 b2b498Clo	chemokine (C-X-C motif) ligand 16
Cxcl2	NM_009140.2	CINC-2a GROb Gro2 MIP-2 MIP-2a Mgsa-b Mip2 Scyb Scyb2	chemokine (C-X-C motif) ligand 2
Cxcl3	NM_203320.2	Dcip1 Gm1960	chemokine (C-X-C motif) ligand 3
Cxcl5	NM_009141.2	AMCF-II ENA-78 GCP-2 LIX Scyb5 Scyb6	chemokine (C-X-C motif) ligand 5
Cxcl9	NM_008599.2	BB139920 CMK Mig MuMIG Scyb9 crg-10	chemokine (C-X-C motif) ligand 9
Cxcr1	NM_178241.4	Il8ra	chemokine (C-X-C motif) receptor 1
Cxcr2	NM_009909.3	CD128 CDw128 Cmkar2 Gpcr16 IL-8R IL-8rb IL8RA Il8rb mIL-8RH	chemokine (C-X-C motif) receptor 2
Cxcr3	NM_009910.2	Cd183 Cmkar3	chemokine (C-X-C motif) receptor 3
Cxcr4	NM_009911.3	CD184 Cmkar4 LESTR PB-CRK PBSF/SDF-1 Sdf1r	chemokine (C-X-C motif) receptor 4
Cxcr5	NM_007551.2	Blr1 CXCR-5 CXCR-5 Gpcr6 MDR15	chemokine (C-X-C motif) receptor 5

Cxcr6	NM_030712.4	BB217514 BONZO STRL33	chemokine (C-X-C motif) receptor 6
Cybb	NM_007807.2	C88302 CGD91-phox Cgd Cyd Nox2 gp91-1 gp91phox	cytochrome b-245, beta polypeptide
Cyfp2	NM_001252459.1	1500004I01Rik 6430511D02Rik AA930218 AU022376 Pir121 mKIAA1168 2010013M14Rik 2900009M21Rik C130039D01Rik CDMT CYLD1 EAC mKIAA	cytoplasmic FMR1 interacting protein 2
Cyld	NM_001276279.1	0849	cylindromatosis (turban tumor syndrome)
Ddx58	NM_172689.3	6430573D20Rik C330021E21 RIG-I RLR-1	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58
Ddx60	NM_001081215.1	9830118M07	DEAD (Asp-Glu-Ala-Asp) box polypeptide 60
Defb1	NM_007843.3	AW260221 BD-1	defensin beta 1
Dll4	NM_019454.2	Delta4	delta-like 4 (Drosophila)
Dmbt1	XM_006507298.1	CRP CRP-[a] CRP-[b] Crdp DBMT1 gp300 p80	deleted in malignant brain tumors 1
Dock9	XM_976068.1	AA959601 AW538057 B230309H04Rik D14Wsu89e Zizimin1 mKIAA1058	dedicator of cytokinesis 9
Dpp4	NM_001159543.1	Cd26 Dpp-4 THAM	dipeptidylpeptidase 4
Dusp4	NM_176933.4	2700078F24Rik A1844617 BB104621 E130306H24Rik MKP2	dual specificity phosphatase 4
Dusp6	NM_026268.2	1300019I03Rik MKP-3 MKP3 PYST1	dual specificity phosphatase 6
Ebi3	NM_015766.2	EBI-3 IL-27	Epstein-Barr virus induced gene 3
Ecsit	NM_001253897.1	Sitpec	ECSIT homolog (Drosophila)
Egfr	NM_207655.2	9030024J15Rik A1552599 ErbB ErbB1 Errp Wa5 wa-2 wa2 A530045N19Rik ETR103 Egr-1 Krox-1 Krox-24 Krox24 NGF1-A NGFI-A NGF1A TIS8 Zenk Zfp-6 Zif268 egr	epidermal growth factor receptor
Egr1	NM_007913.5	Egr-2 Krox-20 Krox20 NGF1-B Zfp-25 Zfp-6	early growth response 1
Egr2	NM_010118.2	Pilot	early growth response 2
Egr3	NM_018781.2	Ela2 F430011M15Rik NE	early growth response 3
Elane	NM_015779.2	Elk1	elastase, neutrophil expressed
Elk1	NM_007922.4	Elk-1	ELK1, member of ETS oncogene family
Emr1	NM_010130.1	DD7A5-7 EGF-TM7 F4/80 Gfp480 Ly71 TM7LN3	EGF-like module containing, mucin-like, hormone receptor-like sequence 1
Eng	NM_001146350.1	A1528660 A1662476 CD105 Endo S-endoglin	endoglin
Entpd1	NM_009848.3	2610206B08Rik AA408691 Cd39 NTPDase-1	ectonucleoside triphosphate diphosphohydrolase 1
Eomes	NM_010136.2	C77258 TBR-2 Tbr2	eomesodermin homolog (Xenopus laevis)
Ep300	NM_177821.6	A430090G16 A730011L11 KAT3B p300 p300 HAT CD326 EGP EGP-2 Egp314 Ep-CAM EpCAM1 GA733-2 Ly74 TROP1 Tacs1 Tacstd1 gp40	E1A binding protein p300
Epcam	NM_008532.2	2310046K10Rik 5033415K03Rik BRES11	epithelial cell adhesion molecule
Epst1	NM_029495.2	ErbB2	epithelial stromal interaction 1 (breast)
ErbB2	NM_001003817.1	ErbB-2 HER-2 HER2 Neu c-erbB2 c-neu mKIAA3023	v-erb-b2 erythroblastic leukemia viral oncogene homolog 2, neuro/glioblastoma derived oncogene homolog (avian)
Ets1	NM_001038642.1	A1196000 A1448617 D230050P06 Ets-1 Ttp1	E26 avian leukemia oncogene 1, 5' domain
Ewrs1	NM_007968.3	AU018891 Ews Ewsh	Ewing sarcoma breakpoint region 1
F12	NM_021489.2	FXII HAF	coagulation factor XII (Hageman factor)
F13a1	NM_001166391.1	1200014I03Rik A1462306 F13a	coagulation factor XIII, A1 subunit
F2r1	NM_007974.4	Gpcr11 PAR-2 Par2	coagulation factor II (thrombin) receptor-like 1
Fadd	NM_010175.5	Mort1 FADD	Fas (TNFRSF6)-associated via death domain
Fap	NM_007986.2	-	fibroblast activation protein
Fas	NM_007987.2	A1196731 APO1 APT1 CD95 TNFR6 Tnfrsf6 lpr	Fas (TNF receptor superfamily member 6)
FasL	NM_010177.3	APT1 LG1 CD178 CD95-L CD95L Fas-L Faslg Tnfsf6 gld	Fas ligand (TNF superfamily, member 6)
Fcgr1a	NM_010184.1	FcERI Fce1a-1 Fcr-5 fcpesilonri	Fc receptor, IgE, high affinity I, alpha polypeptide
Fcgr1g	NM_010185.4	A1573376 CD23 FcR-gamma FcR[g] FcRgamma Fce1g FcpesilonRI Ly-50	Fc receptor, IgE, high affinity I, gamma polypeptide
Fcgr2a	NM_001253737.1	CD23 Fce2 Fcer2 Ly-42	Fc receptor, IgE, low affinity II, alpha polypeptide
Fcgr1	NM_010186.5	A1323638 AV092959 CD64 FcgammaRI IGGHAFc A1528646 CD32 F630109E10Rik FcgRIII FcgRIII Fcgr2 Fcgr2a Fcr-2 Fcr-3 Ly-	Fc receptor, IgG, high affinity I
Fcgr2b	NM_001077189.1	17 Ly-m20 LyM-1 Lym-1 fcrII	Fc receptor, IgG, low affinity IIb
Fcgr3	NM_010188.5	CD16	Fc receptor, IgG, low affinity III
Fcgr4	NM_144559.1	4833442P21Rik CD16-2 FcgRIV FcgammaRIV Fcgr3a FcrI3	Fc receptor, IgG, low affinity IV
Fez2	NM_183171.4	UNC-76 UNC76	fasciculation and elongation protein zeta 1 (zygin I)
Flt3	NM_010229.2	B230315G04 CD135 Flk-2 Flk2 Flt-3 Ly72 wmfl	FMS-like tyrosine kinase 3
Flt3l	NM_013520.2	Flt3lg Ly72L	FMS-like tyrosine kinase 3 ligand
Fn1	NM_010233.1	E330027I09 Fn Fn-1	fibronectin 1
Fos	NM_010234.2	D12Rfj1 c-fos cFos	FBJ osteosarcoma oncogene
Foxj1	NM_008240.3	FKHL-13 HFH-4 Hfh4	forkhead box J1
Foxp3	NM_054039.2	JM2 scurfin sf	forkhead box P3
Fpr2	NM_008039.2	E330010I07Rik Fpr-rs2	formyl peptide receptor 2
Fut7	NM_001177367.1	A1853193 FTVII Fuc-TVII FucT-VII	fucosyltransferase 7
Fyn	NM_008054.2	A1448320 AW552119	Fyn proto-oncogene
Gata3	NM_008091.3	Gata-3 jal	GATA binding protein 3
Gbp2b	NM_010259.2	5830475C06 Gbp-1 Gbp1 Mag-1 Mpa-1 Mpa1	guanylate binding protein 2b
Gbp5	NM_153564.2	5330409I06Rik Gbp5a	guanylate binding protein 5
Gfi1	NM_010278.2	AW495828 Gfi-1 Pal-1 Pal1	growth factor independent 1
Glycam1	NM_008134.2	MC26 Sgp50 glyCAM-1 Amf Gpi Gpi-1 Gpi-1r Gpi-1s Gpi-1t Gpi-1r Gpi-1s Gpi-1t Gpi-1s MF NK NK GPI Nik Org Pgi Phi	glycosylation dependent cell adhesion molecule 1
Gpi1	NM_008155.4	Gpi1	glucose phosphate isomerase 1
Gpr183	NM_183031.2	Ebi2	G protein-coupled receptor 183
Gpr44	XM_006526695.1	Crth2 Grp45 Ptgdr2	G protein-coupled receptor 44
Gtf3c1	NM_207239.1	-	general transcription factor III C 1
Gzma	NM_010370.2	AW494114 Ctla-3 Ctla3 Hf SE1 TSP-1 TSP1	granzyme A
Gzmb	NM_013542.2	A1553453 CCP-1/C11 CCP1 Ctla-1 Ctla1 GZB	granzyme B
Gzmk	NM_008196.1	-	granzyme K
Gzmm	NM_008504.2	Lmet1 MMET-1	granzyme M (lymphocyte met-ase 1)
H2-Aa	NM_010378.2	Aalpha H-2Aa H2Aa I-Aalpha Ialpha Ia-1 Ia1	histocompatibility 2, class II antigen A, alpha
H2-Ab1	NM_207105.2	A1845868 Abeta H-2Ab H2-Ab I-Abeta IAb Ia-2 Ia2 Rmcs1	histocompatibility 2, class II antigen A, beta 1
H2-D1	NM_010380.3	H-2D H2-D	histocompatibility 2, D region locus 1
H2-DMa	NM_010386.3	H-2Ma H2-Ma	histocompatibility 2, class II, locus DMA

H2-DMb1	NM_010387.2	AI385589 H-2Mb1 H2-Mb1	histocompatibility 2, class II, locus Mb1
H2-DMb2	NM_010388.4	H-2Mb2 H2-Mb2	histocompatibility 2, class II, locus Mb2
H2-Ea-ps	NM_010381.2	AI323765 E-alpha-f H-2Ea H2-Ea I-Ealpha Ia-3 Ia3	histocompatibility 2, class II antigen E alpha, pseudogene
H2-Eb1	NM_010382.2	H-2Eb H2Eb 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-M3	NM_013819.2	H-2M3 Hmt M3a R4B2	histocompatibility 2, M region locus 3
H2-Ob	NM_010389.3	A-beta-2 A-beta2 H-2Ab H-2 H-2Ob H2-Ab H2-Ab2 H2-IAb2 Ob	histocompatibility 2, O region beta locus
H2-Q1	NM_010390.3	H-2Q1 Q1 Q1b Q1d Q1k Qa-1 Qa1 Qed-1	histocompatibility 2, Q region locus 1
H2-Q10	NM_010391.4	H-2Q10 Q10 Qa10	histocompatibility 2, Q region locus 10
H2-Q2	NM_010392.2	BE136769 ENSMUSG0000079507 Gm11132 H-2Q2 gs14-2 37b 37c H-2T23 H2-Qa1 Qa-1 Qa-1(b) Qa1 Qed- 1 T18c T18c(37) T23b T23d	histocompatibility 2, Q region locus 2
H2-T23	NM_010398.3		histocompatibility 2, T region locus 23
H60a	NM_010400.2	H60	histocompatibility 60a
Hamp	NM_032541.1	Hamp1 Hepc Hepc1	hepcidin antimicrobial peptide
Havcr2	NM_134250.2	TIM-3 Tim3 Timd3	hepatitis A virus cellular receptor 2
Hc	NM_010406.1	C5 C5a He	hemolytic complement
Hck	NM_010407.3	AI849071 Bmk	hemopoietic cell kinase
Hcst	NM_011827.3	DAP10 KAP10	hematopoietic cell signal transducer
Herc6	NM_025992.2	1700121D12Rik 2510038N07Rik 4930427L17Rik AI451296 CEB1 Herc5	hect domain and RLD 6
Hif1a	NM_010431.2	AA959795 HIF1alpha MOP1 bHLHe78	hypoxia inducible factor 1, alpha subunit
Hmgb1	NM_010439.3	DEF HMG-1 Hmg1 SBP-1 amphoterin p30	high mobility group box 1
Hras	NM_008284.2	H-ras Ha-ras Harvey-ras Hras-1 Hras1 Kras2 c-H-ras c-Ha-ras c-rasHa ras	Harvey rat sarcoma virus oncogene
Hsd11b1	NM_008288.2	-	hydroxysteroid 11-beta dehydrogenase 1
Hspb2	NM_024441.3	27kDa 2810021G24Rik HSP27 MKBP	heat shock protein 2
Icam1	NM_010493.2	CD54 Icam-1 Ly-47 MALA-2	intercellular adhesion molecule 1
Icam2	NM_010494.1	CD102 Icam-2 Ly-60	intercellular adhesion molecule 2
Icam4	NM_023892.2	1810015M19Rik Cd242 ICAM-4	intercellular adhesion molecule 4, Landsteiner-Wiener blood group
Icos	NM_017480.1	AILIM CCLP CRP-1 H4 Ly115 AU044799 B7-H2 B7RP-1 B7h BG071784 GI50 GL50 GL50-B ICOS- L Icoslg LICOS Ly115 mKIAA0653	inducible T cell co-stimulator
Icosl	NM_015790.3		icos ligand
Ido1	NM_008324.1	Ido Indo	indoleamine 2,3-dioxygenase 1
Ifi27	NM_026790.2	1110013J02Rik 2900026P10Rik D12Erd647e ISG12a Ifi271	interferon, alpha-inducible protein 27
Ifi35	NM_027320.4	2010008K16Rik AW986054 IFP35 ifi-35	interferon-induced protein 35
Ifi44	NM_133871.2	A430056A10Rik AW261460 MTAP44 p44	interferon-induced protein 44
Ifi44l	NM_031367.1	H-28 H28 H28-1 NS1178	interferon-induced protein 44 like
Ifih1	NM_027835.2	913009C22Rik Helicard Hlcl MDA5 RLR-2	interferon induced with helicase C domain 1
Ifit1	NM_008331.2	ISG56 Ifi56 P56	interferon-induced protein with tetratricopeptide repeats 1
Ifit2	NM_008332.2	AV302338 Ifi54 P54	interferon-induced protein with tetratricopeptide repeats 2
Ifit3	NM_010501.1	Ifi49 P49	interferon-induced protein with tetratricopeptide repeats 3
Ifitm1	NM_001112715.1	1110036C17Rik DSPA2a Mii-2 Mii2	interferon induced transmembrane protein 1
Ifitm2	NM_030694.1	DSPA2c Ifitm3 fragilis3 mil-3	interferon induced transmembrane protein 2
Ifna1	NM_010502.2	Ifa1	interferon alpha 1
Ifna2	NM_010503.2	Ifa2	interferon alpha 2
Ifna4	NM_010504.2	Ifa4	interferon alpha 4
Ifnar1	NM_010508.1	CD118 Ifar Ifnar Ifrc Infar	interferon (alpha and beta) receptor 1
Ifnar2	NM_001110498.1	AI747302 Ifnar-2	interferon (alpha and beta) receptor 2
Ifnb1	NM_010510.1	IFN-beta IFNB Ifb	interferon beta 1, fibroblast
Ifng	NM_008337.1	IFN-gamma Ifg	interferon gamma
Ifngr1	NM_010511.2	CD119 IFN-gammaR Ifgr Ifngr Nktar	interferon gamma receptor 1
Ifnl2	NM_001024673.2	EG330496 IL-28A IL28a	interferon lambda 2
Igf1r	NM_010513.2	A330103N21Rik CD221 D930020L01 IGF-1R hyft	insulin-like growth factor 1 receptor
Igf2r	NM_010515.1	AI661837 CD222 Cl-MPR M6P IGF2R Mpr300	insulin-like growth factor 2 receptor
Igll1	NM_001190325.1	BB139905 Igl-5 Igl Lambda5	immunoglobulin lambda-like polypeptide 1
Ikkbk	NM_010546.2	AI132552 IKK-2 IKK-beta IKK2 IKK[b] IKKbeta	inhibitor of kappaB kinase beta
Ikkbe	NM_019777.3	AW558201 IKK-i IKKepsilon Ikki	inhibitor of kappaB kinase epsilon
Ikkbg	NM_178590.2	1110037D23Rik AI848108 AI851264 AW124339 IKK[g] NEMO	inhibitor of kappaB kinase gamma
Ikzf1	NM_001025597.1	5832432G11Rik Ikaros LyF-1 Zfpn1a1 Zfn1a1 hik-1 mKIAA4227	IKAROS family zinc finger 1
Ikzf2	NM_011770.4	A730095J18Rik Helios Zfpn1a2 Zfn1a2	IKAROS family zinc finger 2
Il10	NM_010548.1	CSIF Il-10	interleukin 10
Il10ra	NM_008348.2	AW553859 CDw210 CDw210a Il10r mIL-10R	interleukin 10 receptor, alpha
Il11	NM_008350.2	IL-11	interleukin 11
Il11ra1	NM_010549.3	AI314697 GP130 Il-11ra Il11ra Il11ra2 NR1	interleukin 11 receptor, alpha chain 1
Il12a	NM_008351.1	IL-12p35 Il-12a L112a p35	interleukin 12a
Il12b	NM_008352.1	Il-12b Il-12p40 Il12p40 p40	interleukin 12b
Il12rb1	NM_008353.2	CD212 IL-12R[b]	interleukin 12 receptor, beta 1
Il12rb2	NM_008354.3	A930027I18Rik IL-12RB2 Ifnm	interleukin 12 receptor, beta 2
Il13	NM_008355.2	IL-13	interleukin 13
Il13ra1	NM_133990.4	AI882074 CD213a1 IL-13r[a] Il13ra NR4	interleukin 13 receptor, alpha 1
Il13ra2	NM_008356.3	CD213a2	interleukin 13 receptor, alpha 2
Il15	NM_008357.2	AI503618 IL-15	interleukin 15
Il15ra	NM_008358.2	AA690181 IL-15RA	interleukin 15 receptor, alpha chain
Il16	NM_010551.3	mKIAA4048	interleukin 16
Il17a	NM_010552.3	Ctla-8 Ctla8 IL-17 IL-17A Il17	interleukin 17A
Il17b	NM_019508.1	1110006O16Rik 1700006N07Rik Zcyto7	interleukin 17B
Il17f	NM_145856.2	C87042 IL-17F	interleukin 17F
Il17ra	NM_008359.1	AW538159 Cdw217 Il17r VDw217	interleukin 17 receptor A
Il17rb	NM_019583.3	Evi27 IL-17ER IL-17Rh1 IL17RH1 Il17br	interleukin 17 receptor B
Il18	NM_008360.1	Igif Il-18	interleukin 18
Il18r1	NM_001161842.1	Il18ralpha Il18rp	interleukin 18 receptor 1
Il18rap	NM_010553.2	AcPL IL-18R-beta IL-18RacP IL-18Rbeta IL-18RacPL	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-1beta Il-1b	interleukin 1 beta
Il1r1	NM_001123382.1	CD121a CD121b IL-iR Il1r-1	interleukin 1 receptor, type I
Il1r2	NM_010555.4	CD121b Il1r-2	interleukin 1 receptor, type II
Il1rap	NM_008364.2	6430709H04Rik AI255955 AV239853 IL-1RAcP	interleukin 1 receptor accessory protein
Il1rapl2	NM_030688.1	-	interleukin 1 receptor accessory protein-like 2
Il1r1l	NM_001025602.2	DER4 Fit-1 Ly84 ST2L St2 St2-rs1 T1 T1/ST2	interleukin 1 receptor-like 1
Il1r12	NM_133193.3	AI481289 AW551444 IL-1Rrp2	interleukin 1 receptor-like 2
Il1rm	NM_031167.5	F630041P17Rik IL-1ra	interleukin 1 receptor antagonist
Il2	NM_008366.3	Il-2	interleukin 2
Il21	NM_021782.2	-	interleukin 21
Il21r	NM_021887.1	NILR	interleukin 21 receptor
Il22	NM_016971.1	IL-22 IL-22a ILTI Fa Il2if	interleukin 22
Il22ra1	NM_178257.1	9130219A07Rik ENSMUSG00000073746 IL-22R Il22r	interleukin 22 receptor, alpha 1
Il22ra2	NM_178258.5	CRF2-10 CRF2-s1 CRF2X Il-22bp	interleukin 22 receptor, alpha 2
Il23a	NM_031252.1	IL-23 p19	interleukin 23, alpha subunit p19
Il23r	NM_144548.1	IL-23R	interleukin 23 receptor
Il24	NM_053095.2	FISP Mda-7 Mda7 St16	interleukin 24
Il25	NM_080729.2	IL-17e Il17e	interleukin 25
Il27	NM_145636.1	IL-27 IL-27p28 Il30 p28	interleukin 27
Il2ra	NM_008367.2	CD25 Il2r Ly-43	interleukin 2 receptor, alpha chain
Il2rb	NM_008368.3	CD122 IL-15Rbeta IL15Rbeta Il-2/15Rbeta Il-2Rbeta p70	interleukin 2 receptor, beta chain
Il2rg	NM_013563.3	CD132 [g]c [gamma(c)] gc	interleukin 2 receptor, gamma chain
Il3	NM_010556.4	BPA Csfmu HCGF Il-3 MCGF PSF	interleukin 3
Il34	NM_001135100.1	2010004A03Rik AI593503	interleukin 34
Il3ra	NM_008369.1	CD123 CDw123 SUT-1	interleukin 3 receptor, alpha chain
Il4	NM_021283.1	BSF-1 Il-4	interleukin 4
Il4ra	NM_010557.1	CD124 Il4r	interleukin 4 receptor, alpha
Il5	NM_010558.1	Il-5	interleukin 5
Il5ra	NM_008370.2	CD125 CDw125 Il5r	interleukin 5 receptor, alpha
Il6	NM_031168.1	Il-6	interleukin 6
Il6ra	NM_010559.2	CD126 IL-6R Il6r	interleukin 6 receptor, alpha
Il6st	NM_010560.2	5133400A03Rik AA389424 BB405851 CD130 D13Ert699e gp130	interleukin 6 signal transducer
Il7	NM_008371.2	A630026I06Rik Il-7 h1b368	interleukin 7
Il7r	NM_008372.3	CD127 IL-7Ralpha	interleukin 7 receptor
Il9	NM_008373.1	Il-9 P40	interleukin 9
Ilf3	NM_010561.2	MBII-26 MPHOSPH4 NF90 NFAR	interleukin enhancer binding factor 3
Inpp5d	NM_001110192.1	AI323613 SHIP SHIP-1 SHIP1 s-SHIP	inositol polyphosphate-5-phosphatase D
Irak1	NM_008363.2	AA408924 IRAK IRAK-1 IRAK1-S Il1rak Plpk mPLK	interleukin-1 receptor-associated kinase 1
Irak2	NM_001113553.1	6330415L08Rik AI649099 IRAK-2	interleukin-1 receptor-associated kinase 2
Irak3	NM_028679.3	4833428C18Rik AI563835 IRAK-M	interleukin-1 receptor-associated kinase 3
Irak4	NM_029926.5	8430405M07Rik 9330209D03Rik IRAK-4 NY-REN-64	interleukin-1 receptor-associated kinase 4
Irf1	NM_008390.1	AU020929 Irf-1	interferon regulatory factor 1
Irf2	NM_008391.2	9830146E22Rik AI646973 Irf-2	interferon regulatory factor 2
Irf3	NM_016849.4	C920001K05Rik IRF-3	interferon regulatory factor 3
Irf4	NM_013674.1	AI385587 IRF-4 LSIRF Spip	interferon regulatory factor 4
Irf5	NM_012057.3	AW491843 mirf5	interferon regulatory factor 5
Irf7	NM_016850.2	-	interferon regulatory factor 7
Irf8	NM_008320.3	AI893568 ICSBP IRF-8 Icsbp1 Myls	interferon regulatory factor 8
Irgm2	NM_019440.2	AI481100 GTP1 Ifigd2 Iigp2	immunity-related GTPase family M member 2
Isg15	NM_015783.1	G1p2 IGI15 IP17 Irfp UCRP	ISG15 ubiquitin-like modifier
Isg20	NM_020583.5	1600023I01Rik 2010107M23Rik 20kDa DnaQL HEM45	interferon-stimulated protein
Itch	NM_008395.2	6720481N21Rik 8030492O04Rik A130065M08 AIP4 C230047C07Rik	itchy, E3 ubiquitin protein ligase
Itga1	NM_001033228.3	CD49A E130012M19Rik Vla1	integrin alpha 1
Itga2	NM_008396.2	CD49B DX5	integrin alpha 2
Itga2b	NM_010575.2	AI172977 CD41 CD41B Gp11b alpha11b	integrin alpha 2b
Itga4	NM_010576.3	CD49D Itga4B	integrin alpha 4
Itga5	NM_010577.3	Cd49e Fnra VLA5	integrin alpha 5 (fibronectin receptor alpha)
Itga6	NM_008397.3	5033401O05Rik AI115430 Cd49f VLA-6	integrin alpha 6
Itgae	NM_008399.1	A530055J10 CD103 aM290 alpha-E1 alpha-M290	integrin alpha E, epithelial-associated
Itgal	NM_008400.2	(p180) Cd11a LFA-1 LFA-1A Ly-15 Ly-21	integrin alpha L
Itgam	NM_008401.2	CD11b CD18 CR3 CR3A Cd11b F730045J24Rik Ly-40 MAC1 Mac-1 Mac-1a	integrin alpha M
Itgax	NM_021334.2	AI449405 Cd11c Cr4 N418 4633401G24Rik AA409975 AA960159 CD29 ENSMUSG00000051907 Fnrb G m9863 gp11a	integrin alpha X
Itgb1	NM_010578.1	m9863 gp11a	integrin beta 1 (fibronectin receptor beta)
Itgb2	NM_008404.4	2E6 AI528527 Cd18 LAD LCAMB Lfa1 MF17	integrin beta 2
Itgb3	NM_016780.2	CD61 GP3A INGRB3	integrin beta 3
Itgb4	NM_001005608.2	AA407042 C230078O20 CD104	integrin beta 4
Itk	NM_010583.3	Emt Tcsk Tsk	IL2 inducible T cell kinase
Jak1	NM_146145.2	AA960307 C130039L05Rik	Janus kinase 1
Jak2	NM_008413.2	Fd17	Janus kinase 2
Jak3	NM_010589.5	fae wil	Janus kinase 3
Jam3	NM_023277.4	1110002N23Rik JAM-3 JAM-C Jcam3	junction adhesion molecule 3
Jun	NM_010591.2	AP-1 Junc c-jun	jun proto-oncogene
Kdr	NM_010612.2	6130401C07 Flk-1 Flk1 Krd-1 Ly73 VEGFR-2 VEGFR-2 sVEGFR-2 Bs CD117 Fdc Gfsfco1 Gfsfco5 Gfsfow3 SCO1 SCO5 SOW3 Ssm Tr-	kinase insert domain protein receptor
Kit	NM_001122733.1	kit W c-KIT	kit oncogene
Klra1	NM_016659.3	A1 Klra22 Ly49a Ly49a<129> Ly49v	killer cell lectin-like receptor, subfamily A, member 1
Klra15	NM_013793.2	Ly49O	killer cell lectin-like receptor, subfamily A, member 15
Klra17	NM_133203.4	Ly49q Ly49q1	killer cell lectin-like receptor, subfamily A, member 17
Klra2	NM_001170851.1	Klra30 Ly49b	killer cell lectin-like receptor, subfamily A, member 2

Klra20	NM_053150.2	Ly49t	killer cell lectin-like receptor subfamily A, member 20
Klra21	NM_053151.1	Ly49H Ly49u	killer cell lectin-like receptor subfamily A, member 21
Klra27	XM_916590.3	Ly49e/c2	killer cell lectin-like receptor, subfamily A, member 27
Klra3	NM_010648.2	5E6 Ly49c NK-2.1 Nk-2 Nk2 Nk2.1	killer cell lectin-like receptor, subfamily A, member 3
Klra4	NM_010649.3	Chok Klra32 Ly-49d Ly49d Ly49r<129>	killer cell lectin-like receptor, subfamily A, member 4
Klra5	NM_008463.2	Ly49e	killer cell lectin-like receptor, subfamily A, member 5
Klra6	NM_008464.2	Ly49f	killer cell lectin-like receptor, subfamily A, member 6
Klra7	NM_001110323.1	LGL-1 Ly-49G.1 Ly-49G.2 Ly-49G.3 Ly49G.4 Ly49g Ly49g2 4930431A04Riik Gm4696 Klrb1g Klrb6 Ly-55 Ly55 NKR-P1G Nkrp-1e Nkrp1g	killer cell lectin-like receptor, subfamily A, member 7
Klrb1	NM_001099918.1	AI462337 CD161 Ly-59 Ly55c Ly59 NK-RP1 NK1.1 NKR-P1.9 NKR1P1 NKR140 Nk-1 Nk-1.2 Nk1 Nk1.2 Nkrp1c ly-55c	killer cell lectin-like receptor subfamily B member 1
Klrb1c	NM_008527.2	CD159a NKG2A NKG2B	killer cell lectin-like receptor subfamily B member 1C
Klrc1	NM_001136068.1	CD159a NKG2A NKG2B	killer cell lectin-like receptor subfamily C, member 1
Klrc2	NM_010653.4	NKG2C	killer cell lectin-like receptor subfamily C, member 2
Klrd1	NM_010654.2	CD94	killer cell lectin-like receptor, subfamily D, member 1
Klrg1	NM_016970.1	2F1-Ag MAFA MAFA-L	killer cell lectin-like receptor subfamily G, member 1
Klrk1	NM_001083322.1	D6H1252489E NKG2-D Nkg2d	killer cell lectin-like receptor subfamily K, member 1
Lag3	NM_008479.1	CD223 LAG-3 Ly66	lymphocyte-activation gene 3
Lamp1	NM_010684.2	A1196048 CD107a Lamp-1	lysosomal-associated membrane protein 1
Lamp2	NM_001017959.1	CD107b Lamp-2 Lamp-2a Lamp-2b Lamp-2c Mac3	lysosomal-associated membrane protein 2
Lamp3	NM_177356.3	1200002D17Rik Cd208 DC-LAMP DCLAMP LAMP TSC403	lysosomal-associated membrane protein 3
Lbp	NM_008489.2	Bpifd2 Ly88	lipopolysaccharide binding protein
Lck	NM_010693.2	Hck-3 Lsk Lskt p56<lck> p56Lck	lymphocyte protein tyrosine kinase
Lcn2	NM_008491.1	24p3 AW212229 Sip24	lipocalin 2
Lcp1	NM_001247984.1	AW536232 D14Erd310e LCP-1 Pls2 pp65	lymphocyte cytosolic protein 1
Lgals3	NM_001145953.1	GBP L-34 Mac-2 gal3	lectin, galactose binding, soluble 3
Lif	NM_008501.2	-	leukemia inhibitory factor
Lilra5	NM_001081239.2	E030017K20 EG232801 Gm4878 Lilrc1	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5
Litaf	NM_019980.1	3222402J11Rik C85531 N4WB3 TBX1	LPS-induced TN factor
Lrp1	NM_008512.2	A2mr AI316852 CD91 Lrp	low density lipoprotein receptor-related protein 1
Lrrn3	NM_010733.2	NLRR-3	leucine rich repeat protein 3, neuronal
Lta	NM_010735.1	LT LT-[a] LT-alpha LT[a] LTalpha Ltx TNF-beta TNFSF1 Tnfb Tnfsf1b hlb382	lymphotoxin A
Ltb	NM_008518.2	AI662801 LTbeta Tnfc Tnfsf3 p33 AI256028 CD18 LTbetaR Ltar TNF-R-III TNFCR TNFR-RP TNFR2-RP TNFRrp Tnfr Tnfsf3	lymphotoxin B
Ltbr	NM_010736.3	RP TNFRrp Tnfr Tnfsf3	lymphotoxin B receptor
Ltf	NM_008522.3	Csp82 Lf MMS10R Ms10r	lactotransferrin
Ltk	NM_008523.2	-	leukocyte tyrosine kinase
Ly86	NM_010745.2	MD-1 MD1	lymphocyte antigen 86
Ly9	NM_008534.2	AI893573 CD229 Lgp100 Ly-9 SLAMF3 T100	lymphocyte antigen 9
Ly96	NM_001159711.1	ESOP-1 MD-2 MD2	lymphocyte antigen 96
Lyn	NM_010747.1	AA407514 Hck-2 p53Lyn p56Lyn	Yamaguchi sarcoma viral (v-yes-1) oncogene homolog
Lyve1	NM_053247.4	1200012G08Rik Crsbp-1 Lyve-1 Xlkd1	lymphatic vessel endothelial hyaluronan receptor 1
Ly22	NM_017372.3	AI326280 Lys Lysm Lyzs Lzm Lzm-s1 Lzp	lysozyme 2
Maf	NM_001025577.2	2810401A20Rik A230108G15Rik AW047063 c-maf	avian musculoaponeurotic fibrosarcoma (v-maf) AS42 oncogene homolog
Map2k1	NM_008927.3	MAPKK1 MEKK1 Mek1 Prkmk1	mitogen-activated protein kinase kinase 1
Map2k2	NM_023138.4	AA589381 MEK2 MK2 Prkmk2	mitogen-activated protein kinase kinase 2
Map2k4	NM_009157.4	JNKK1 MEK4 MKK4 PRKMK4 Sek1 Serk1	mitogen-activated protein kinase kinase 4
Map3k1	NM_011945.2	MAPKKK1 MEKK1 Mekk	mitogen-activated protein kinase kinase kinase 1
Map3k5	NM_008580.4	7420452D20Rik ASK ASK1 MAPKKK5 Mekk5	mitogen-activated protein kinase kinase kinase 5
Map3k7	NM_009316.1	B430101B05 C87327 Tak1	mitogen-activated protein kinase kinase kinase 7
Map4k2	NM_009006.2	AI385662 BL44 GCK Rab8ip 9030612K14Rik AA407128 AU018647 C78273 ERK Erk2 MAPK2 PRKM2 Prkm1 p41mapk p42mapk	mitogen-activated protein kinase kinase kinase 2
Mapk1	NM_011949.3	km1 p41mapk p42mapk	mitogen-activated protein kinase 1
Mapk11	NM_011161.5	P38b Prkm11 Sapk2 Sapk2b p38-2 p38beta p38beta2 CSBP2 Crk1 Csbp1 Mxi2 PRKM14 PRKM15 p38 p38-alpha p38MAPK p38a p38alpha	mitogen-activated protein kinase 11
Mapk14	NM_001168513.1	alpha p38MAPK p38a p38alpha	mitogen-activated protein kinase 14
Mapk3	NM_011952.2	Erk-1 Erk1 Ert2 Esrk1 Mnk1 Mtap2k Prkm3 p44 p44erk1 p44mapk	mitogen-activated protein kinase 3
Mapk8	NM_016700.3	AI849689 JNK JNK1 Prkm8 SAPK1	mitogen-activated protein kinase 8
Mapkapk2	NM_008551.1	AA960234 MAPKAP-K2 MK-2 MK2 Rps6kc1	MAP kinase-activated protein kinase 2
Marco	NM_010766.2	AI323439 Ly112 Scara2	macrophage receptor with collagenous structure
Masp1	NM_008555.2	AW048060 CCPII Crarf Masp1/3	mannan-binding lectin serine peptidase 1
Masp2	NM_010767.3	MASP-2 Map19	mannan-binding lectin serine peptidase 2
Mavs	NM_144888.1	D430028G21Rik IPS-1 Visa cardif	mitochondrial antiviral signaling protein
Mbl2	NM_010776.1	L-MBP MBL MBL-C MBP-C	mannose-binding lectin (protein C) 2
Mcam	NM_023061.2	1-gicerin AV025631 CD146 CD149 Muc18 s-endo s-gicerin	melanoma cell adhesion molecule
Mef2c	NM_001170537.1	5430401D19Rik JNK1 IPS-1 Visa cardif	myocyte enhancer factor 2C
Mefv	NM_001161790.1	FMF TRIM20 pyrin	Mediterranean fever
Mertk	NM_008587.1	Eyk Mer Nyk nmf12	c-met proto-oncogene tyrosine kinase
Mfge8	NM_008594.2	AA408458 AI325141 MFG-E8 MP47 Mfmg P47 SED1 lactadherin	milk fat globule-EGF factor 8 protein
Mif	NM_010798.2	GIF Glif	macrophage migration inhibitory factor
Mil12	NM_153760.2	Micb	MHC I like leukocyte 2
Mme	NM_008604.3	6030454K05Rik C85356 CALLA CD10 NEP SFE	membrane metallo endopeptidase
Mmp9	NM_013599.2	AW743869 B MMP9 C1g4b MMP-9 pro-MMP-9	matrix metalloproteinase 9
Mnx1	NM_019944.1	HB9 Hlx9 MNR2	motor neuron and pancreas homeobox 1
Mpo	NM_010824.2	mKIAA4033	myeloperoxidase
Mpped1	NM_172610.3	6230403M19 AW456965 D15Bwg0669e	metallophosphoesterase domain containing 1
Mr1	NM_008209.4	H2Is	major histocompatibility complex, class I-related
Mrc1	NM_008625.1	AW259686 CD206 MR	mannose receptor, C type 1
Ms4a1	NM_007641.5	AA960661 Cd20 Ly-44 Ms4a2	membrane-spanning 4-domains, subfamily A, member 1

Ms4a2	NM_001276330.1	FcRb Fce1b Fcer1b Fcrbeta Ms4a1 fcERI	membrane-spanning 4-domains, subfamily A, member 2
Msln	NM_018857.1	MPF	mesothelin
Msr1	NM_001113326.1	MRS-A MSR MSR-A SR-AI SR-AII Scara1 Scvr	macrophage scavenger receptor 1
Mst1r	NM_009074.1	CD136 CDw136 Fv-2 Fv2 PTK8 Ron STK	macrophage stimulating 1 receptor (c-met-related tyrosine kinase)
Muc1	NM_013605.1	CD227 EMA Muc-1	mucin 1, transmembrane
Mx1	NM_010846.1	A1893580 Mx Mx-1	myxovirus (influenza virus) resistance 1
Mx2	NM_013606.1	A1528743 Mx-2	myxovirus (influenza virus) resistance 2
Myc	NM_010849.4	AU016757 Myc2 Niard Nird bHLHe39	myelocytomatosis oncogene
Myd88	NM_010851.2	-	myeloid differentiation primary response gene 88
Ncam1	NM_001113204.1	CD56 E-NCAM NCAM-1 Ncam	neural cell adhesion molecule 1
Ncf4	NM_008677.2	AI451400 p40phox	neutrophil cytosolic factor 4
Ncr1	NM_010746.3	Ly94 NKp46	natural cytotoxicity triggering receptor 1
Nefl	NM_010910.1	A1847934 CMT2E NF-L NF68 Nfl	neurofilament, light polypeptide
Nfat1	NM_016791.4	2210017P03Rik AI449492 AV076380 NF-ATc NFAT2 NFATc NFatcb	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1
Nfat2	NM_001037177.1	A1607462 NF-ATc2 NFAT1 NFAT1-D Nfatp	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2
Nfat3	NM_010901.2	C80703 D8Ert281e NFAT4 NFATx	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 3
Nfat4	NM_023699.3	3110041H08Rik AW107667 AW546455 Nfat3	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 4
Nfkb1	NM_008689.2	NF-KB1 NF-kappaB NF-kappaB1 p105 p50 p50/p105	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105
Nfkb2	NM_019408.2	NF-kappaB2 Iytp49 p49/p100 p50B p52	nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100
Nfkb3	NM_019408.2	NF-kappaB2 Iytp49 p49/p100 p50B p52	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha
Nfkb4	NM_019408.2	NF-kappaB2 Iytp49 p49/p100 p50B p52	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha
Nfkb5	NM_019408.2	NF-kappaB2 Iytp49 p49/p100 p50B p52	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha
Nlrp3	NM_010907.2	AI462015 Nfkb1	NLR family, CARD domain containing 5
Nlrp3	NM_001033207.3	AI451557 AK220210 NOD27	NLR family, CARD domain containing 5
Nlrp3	NM_145827.3	AGTAVPRL AII AVP Cias1 FCAS FCU MWS Mmig1 NALP3 Pypaf1	NLR family, pyrin domain containing 3
Nod1	NM_172729.2	C230079P11 Card4 F830007N4Rik Nlrp1	nucleotide-binding oligomerization domain containing 1
Nod2	NM_145857.2	ACUG BLAU CD Card15 F830032C3Rik IBD1 Nlrp2	nucleotide-binding oligomerization domain containing 2
Nos2	NM_010927.3	NOS-II Nos-2 Nos2a i-NOS INOS	nitric oxide synthase 2, inducible
Notch1	NM_008714.2	9930111A19Rik Mis6 N1 Tan1 Iin-12	notch 1
Nrp1	NM_008737.2	C530029I03 NP-1 NPN-1 Npn1 Nrp	neuropilin 1
Nt5e	NM_011851.3	2210401F01Rik AI447961 CD73 NT Nt5 eNT	5' nucleotidase, ecto
Nup107	NM_134010.2	AW541137 C76801	nucleoporin 107
Oas2	NM_145227.3	Oasl11	2'-5' oligoadenylate synthetase 2
Oas3	NM_145226.2	Oasl10	2'-5' oligoadenylate synthetase 3
Oasl1	NM_145209.3	7530414C13Rik oasl9	2'-5' oligoadenylate synthetase-like 1
Osm	NM_001013365.2	OncoM	oncostatin M
Pax5	NM_008782.2	BSAP EBB-1 KLP Pax-5	paired box 5
Pdcd1	NM_008798.1	Ly101 PD-1 Pdc1	programmed cell death 1
Pdcd1lg2	NM_021396.2	B7-DC Btdc F730015O22Rik PD-L2	programmed cell death 1 ligand 2
Pdgfc	NM_019971.2	1110064L01Rik AI647969 PDGF-C	platelet-derived growth factor, C polypeptide
Pdgfrb	NM_008809.1	AI528809 CD140b PDGFR-1 Pdgfr	platelet derived growth factor receptor, beta polypeptide
Pecam1	NM_008816.2	C85791 Cd31 PECAM-1 Pecam	platelet/endothelial cell adhesion molecule 1
Pik3cd	NM_003945690.1	2410099E07Rik 2610208K16Rik AW545373 p110delta	phosphatidylinositol 3-kinase catalytic delta polypeptide
Pik3cg	NM_020272.2	5830428L06Rik PI3Kgamma p110gamma	phosphoinositide-3-kinase, catalytic, gamma polypeptide
Pin1	NM_023371.3	0610025L01Rik D9Bwg1161e	protein (peptidyl-prolyl cis/trans isomerase) NIMA-interacting 1
Pla2g1b	NM_011107.1	Pla2a sPLA2IB	phospholipase A2, group IB, pancreas
Pla2g6	NM_001199023.1	BB112799 PNPLA9 iPLA(2)beta iPLA2 iPLA2beta	phospholipase A2, group VI
Plau	NM_008873.2	u-PA uPA	plasminogen activator, urokinase
Plaur	NM_011113.3	Cd87 u-PAR uPAR	plasminogen activator, urokinase receptor
Pmch	NM_029971.2	A230109K23Rik	pro-melanin-concentrating hormone
Pml	NM_008884.5	1200009E24Rik AI661194 Trim19	promyelocytic leukemia
Pnma1	NM_027438.3	5730402C15Rik	paraneoplastic antigen MA1
Pou2af1	NM_011136.2	BOB.1 Bob-1 Bob1 OBF-1 OBF.1 OCA-B OCAB	POU domain, class 2, associating factor 1
Pou2f2	NM_001163556.1	Oct-2 Oct2a Oct2b 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	2400003M24Rik AI854500 CTAP3 CTAPIII Cxc17 LA-PF4 LDGF MDGF NAP-2 NAP-2-L1 Scyb7 TGB TGB1 THGBB1 b-TG1 beta-TG	pro-platelet basic protein
Prdm1	NM_007548.3	Blimp-1 Blimp1 PRDI-BF1 ZNFPR1A1	PR domain containing 1, with ZNF domain
Prf1	NM_011073.2	Pfn Pfp Prf-1	perforin 1 (pore forming protein)
Prg2	NM_008920.4	MBP mMBP mMBP-1	proteoglycan 2, bone marrow
Prkcd	NM_011103.2	AI385711 D14Ert420e PKC[d] PKCdelta Pkcd	protein kinase C, delta
Prkce	NM_011104.2	5830406C15Rik PKC[e] PKCepsilon Pkce R75156	protein kinase C, epsilon
Psen1	NM_008943.2	Ad3h PS-1 PS1 S182	presenilin 1
Psen2	NM_001128605.1	ALG-3 Ad4h Alg3 PS-2 PS2 Psnl2 STM2	presenilin 2
Psm2	NM_008944.2	Lmpc3	proteasome (prosome, macropain) subunit, alpha type 2
Psmb10	NM_013640.3	Mecl-1 Mecl1	proteasome (prosome, macropain) subunit, beta type 10
Psmb7	NM_011187.1	AU020723 MC14	proteasome (prosome, macropain) subunit, beta type 7
Psmb8	NM_010724.2	Lmp-7 Lmp7	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)
Psmb9	NM_013585.2	Lmp-2 Lmp2	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)
Psmc7	NM_010817.2	AW107203 Mov-34 Mov34	proteasome (prosome, macropain) 26S subunit, non-ATPase, 7
Ptgs2	NM_009962.2	-	prostaglandin-endoperoxide synthase 2
Ptgs2	NM_011198.3	COX2 Cox-2 PGHS-2 PHS-2 Pghs2 TIS10	prostaglandin-endoperoxide synthase 2
Ptprc	NM_011210.3	B220 CD45R Cd45 L-CA Ly-5 Lyt-4 T200 loc	protein tyrosine phosphatase, receptor type, C
Pvr	NM_027514.2	3830421F03Rik CD155 D7Ert4458e HVED PVS Taa1 Tage4 mE4 necl-5	poliovirus receptor
Pvr2	NM_001159724.1	AI325026 AI987993 Cd112 MPH Pvr Pvs nectin-2	poliovirus receptor-related 2
Pycard	NM_023258.4	9130417A21Rik Asc CARD5 TMS-1 TNS1 masc	PYD and CARD domain containing
Raet1c	NM_009018.1	RAE-1gamma	retinoic acid early transcript gamma
Rag1	NM_009019.2	Rag-1	recombination activating gene 1
Rel	NM_009044.2	c-Rel	reticuloendotheliosis oncogene
Rela	NM_009045.4	p65	v-rel reticuloendotheliosis viral oncogene homolog A (avian)

Relb	NM_009046.2	shep	avian reticuloendotheliosis viral (v-rel) oncogene related B
Reps1	NM_001111065.1	BB161292	RalBP1 associated Eps domain containing protein
Ripk2	NM_138952.3	2210420D18Rik CARD3 CARDIAK CCK D4Bwg0615e RICK RIP2	receptor (TNFRSF)-interacting serine-threonine kinase 2
Rora	NM_013646.1	9530021D13Rik Nr1f1 ROR1 ROR2 ROR3 nmf267 sg staggerer tmgc26	RAR-related orphan receptor alpha
Rorc	NM_011281.2	Nr1f3 ROrgamma TOR Thor	RAR-related orphan receptor gamma
Rps6	NM_009096.3	S6R	ribosomal protein S6
Rrad	NM_019662.2	REM3 Rad	Ras-related associated with diabetes
Rsad2	NM_021384.4	2510004L01Rik Vig1 cig5	radical S-adenosyl methionine domain containing 2
Runx1	NM_001111021.1	AML1 CBF-alpha-2 Cbfa2 Pebp2a2 Pebpa2b	runt related transcription factor 1
Runx3	NM_019732.2	AML2 Cbfa3 Pebp2a3	runt related transcription factor 3
S100a8	NM_013650.2	60B8Ag AI323541 B8Ag CFAg CP-10 Caga MRP8 p8	S100 calcium binding protein A8 (calgranulin A)
S100b	NM_009115.3	AI850290 Bpb	S100 protein, beta polypeptide, neural
Saa1	NM_009117.3	Saa-1 Saa2	serum amyloid A 1
Sbno2	NM_183426.1	BC019206 F730040C21 Sno Stno	strawberry notch homolog 2 (Drosophila)
Sele	NM_011345.2	CD62E E-selectin Elam	selectin, endothelial cell
Sell	NM_001164059.1	AI528707 CD62L L-selectin LECAM-1 Lnhr Ly-22 Ly-m22 Lyam-1 Lyam1	selectin, lymphocyte
Selp1g	NM_009151.3	CD162 Psgl-1 Psgl1 Selp1 Selp1	selectin, platelet (p-selectin) ligand
Serp1nb2	NM_001174170.1	PAI-2 Planh2 ovalbumin	serine (or cysteine) peptidase inhibitor, clade B, member 2
Serp1ng1	NM_009776.3	C1INH C1nh	serine (or cysteine) peptidase inhibitor, clade G, member 1
Sh2b2	NM_018825.3	Aps	SH2B adaptor protein 2
Sh2d1a	NM_011364.3	Gm686 SAP	SH2 domain protein 1A
Sh2d1b1	NM_012009.4	EAT-2 EAT-2A Eat2 Eat2a Sh2d1b	SH2 domain protein 1B1
Sigir1	NM_023059.3	AI256711 TIR8	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain
Siglec1	NM_011426.3	Cd169 Siglec-1 Sn	sialic acid binding Ig-like lectin 1, sialoadhesin
Slamf1	NM_013730.4	4933415F16 AA177906 CD150 CDw150 ESTM51 IPO-3 Slam	signaling lymphocytic activation molecule family member 1
Slamf6	NM_030710.2	KAL1 KAL1b Ly108 NTB-A NTBA SF2000	SLAM family member 6
Slamf7	NM_144539.5	19A 19A24 4930560D03Rik CRACC CS1	SLAM family member 7
Slc11a1	NM_013612.2	Bcg Ity Lsh Nramp Nramp1 ity	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1
Slc7a11	NM_011990.2	9930009M05Rik AI451155 sut xCT	solute carrier family 7 (cationic amino acid transporter, y+ system), member 11
Smad2	NM_010754.4	7120426M23Rik Madh2 Mad2 Smad-2 mMad2	SMAD family member 2
Smad3	NM_016769.3	AU022421 Madh3	SMAD family member 3
Smad4	NM_008540.2	AW743858 D18Wsu70e DPC4 Madh4	SMAD family member 4
Smn1	NM_011420.2	AI849087 Gemin1 Smn	survival motor neuron 1
Smpd3	NM_021491.3	4631433G07Rik AI427456 AW537966 fro nSMase2	sphingomyelin phosphodiesterase 3, neutral
Snai1	NM_011427.2	AI194338 Sna Sna1 Snail Snail1	snail homolog 1 (Drosophila)
Socs1	NM_009896.2	Cish1 Cish7 JAB SOCS-1 SSI-1	suppressor of cytokine signaling 1
Socs3	NM_007707.2	Cis3 Cish3 EF-10 Ef10 SSI-3 Ssi3	suppressor of cytokine signaling 3
Spink5	NM_001081180.1	2310065D10Rik AV238912 LEKT1 LETK1 VAKT1	serine peptidase inhibitor, Kazal type 5
Spn	NM_001037810.1	A630014B01Rik Cd43 Galgp Ly-48 Ly48	sialophorin
Spp1	NM_009263.3	2AR Apl-1 BNSP BSP Bsp ETA-1 Eta OP Opn Opl Ric Spp-1	secreted phosphoprotein 1
St6gal1	NM_001252506.1	AW742324 Siat1 St6Gal-I St6gal St6gall	beta galactoside alpha 2,6 sialyltransferase 1
Stat1	NM_009283.3	2010005J02Rik AA408197	signal transducer and activator of transcription 1
Stat2	NM_019963.1	1600010G07Rik AW496480	signal transducer and activator of transcription 2
Stat3	NM_213659.2	1110034C02Rik AW109958 Aprf	signal transducer and activator of transcription 3
Stat4	NM_011487.4	-	signal transducer and activator of transcription 4
Stat5b	NM_011489.3	-	signal transducer and activator of transcription 5B
Stat6	NM_009284.2	-	signal transducer and activator of transcription 6
Syk	NM_001198977.1	Sykb	spleen tyrosine kinase
Syt17	NM_138649.1	Bk	synaptotagmin XVII
Tab1	NM_025609.2	2310012M03Rik Map3k7ip1 b2b449Clo	TGF-beta activated kinase 1/MAP3K7 binding protein 1
Tal1	NM_011527.2	SCL tal-1 Sc bHLHa17 tal-1	T cell acute lymphocytic leukemia 1
Tank	NM_011529.1	C86182 E430026L09Rik I-TRAF	TRAF family member-associated Nf-kappa B activator
Tap1	NM_001161730.1	ABC17 APT1 Abcb2 Ham-1 Ham1 MTP1 PSF1 RING4 TAP Tap-1 Y3ABC18 AI462429 APT2 Abcb3 Ham-2 Ham2 MTP2 PSF2 RING11 Tap-2 Y1 Jjas	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
Tap2	NM_011530.2	-	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
Tapbp	NM_009318.2	D17Wsu91e TPN	TAP binding protein
Tbk1	NM_019786.4	1200008B05Rik AI462036 AW048562	TANK-binding kinase 1
Tbx21	NM_019507.1	TBT1 Tbet Tblym	T-box 21
Tcf7	NM_009331.3	AI465550 TCF-1 Tcf1	transcription factor 7, T cell specific
Tdo2	NM_019911.2	AA407491 TDO TO chky	tryptophan 2,3-dioxygenase
Tek	NM_013690.2	AA517024 Cd202b Hyk Tie2 tie-2	endothelial-specific receptor tyrosine kinase
Tfe3	NM_172472.3	F830016E06Rik Tfe3 Tfe-3 bHLHe33	transcription factor E3
Tfeb	NM_001161723.1	Tcfcb bHLHe35	transcription factor EB
Tfrc	NM_011638.3	2610028K12Rik AI195355 AI426448 AU015758 CD71 E430033M20Rik Mtvr-1 Mtvr1 TFR TFR1 TR Trfr p90	transferrin receptor
Tgfb1	NM_011577.1	TGF-beta1 TGFbeta1 Tgfb Tgfb-1	transforming growth factor, beta 1
Tgfb2	NM_009367.1	BB105277 Tgf-beta2 Tgfb-2	transforming growth factor, beta 2
Tgfb3	NM_009368.2	Tgfb-3	transforming growth factor, beta 3
Tgfr1	NM_009370.2	ALK5 AU017191 Aik-5 TbetaR-I TbetaRI	transforming growth factor, beta receptor I
Tgfr2	NM_009371.2	1110020H15Rik AU042018 DNIIR RIIDN TBR-II TbetaR-II TbetaRII	transforming growth factor, beta receptor II
Thbd	NM_009378.3	AI385582 CD141 TM	thrombomodulin
Thbs1	NM_011580.3	TSP-1 TSP1 Thbs-1 tbsp1	thrombospondin 1
Thy1	NM_009382.3	CD90 T25 Thy-1 Thy-1.2 Thy1.1 Thy1.2	thymus cell antigen 1, theta
Ticam1	NM_174989.4	AW046014 AW547018 TICAM-1 TRIF	toll-like receptor adaptor molecule 1
Ticam2	NM_173394.2	B430113A10 TICAM-2 TRAM Tirp Trif	toll-like receptor adaptor molecule 2
Tie1	NM_011587.2	D430008P04Rik TIE tie-1	tyrosine kinase with immunoglobulin-like and EGF-like domains 1
Tigit	NM_001146325.1	ENSMUSG00000071552 Vstm3	T cell immunoreceptor with Ig and ITIM domains
Timd4	NM_178759.4	B430010N18Rik TIM-4 Tim4	T cell immunoglobulin and mucin domain containing 4
Tirap	NM_001177846.1	AA407980 C13002E04Rik Mal Tlr4ap Wyatt	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	AI957183	toll-like receptor 3
Tlr4	NM_021297.2	Lps Ly87 Ran/M1 Rasl2-8	toll-like receptor 4
Tlr5	NM_016928.2	-	toll-like receptor 5
Tlr6	NM_011604.3	-	toll-like receptor 6
Tlr7	NM_133211.3	-	toll-like receptor 7
Tlr8	NM_133212.2	-	toll-like receptor 8
Tlr9	NM_031178.2	-	toll-like receptor 9
Tmed1	NM_010744.3	II1r1 Ly84 St2	transmembrane emp24 domain containing 1
Tmem173	NM_028261.1	2610307O08Rik ERIS MPYS Mita STING	transmembrane protein 173
Tnf	NM_013693.1	DIF TNF-a TNF-alpha TNFSF2 TNFalpha Tnfa Tnfsf1a	tumor necrosis factor
Tnfaip3	NM_009397.2	A20 Tnfr3	tumor necrosis factor, alpha-induced protein 3
Tnfrsf10b	NM_020275.3	DR5 KILLER Ly98 MK TRAILR2 TRICK2A TRICK2B TRICKB	tumor necrosis factor receptor superfamily, member 10b
Tnfrsf11a	NM_009399.3	Ly109 ODFR OFE Rank TRANCE-R mRANK	tumor necrosis factor receptor superfamily, member 11a
Tnfrsf11b	NM_008764.3	OCIF Opg TR1	tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)
Tnfrsf12a	NM_001161746.1	AI255180 C87282 Fn14 HPIP TWEAK-R TweakR	tumor necrosis factor receptor superfamily, member 12a
Tnfrsf13b	NM_021349.1	1200009E08Rik Taci	tumor necrosis factor receptor superfamily, member 13b
Tnfrsf13c	NM_028075.2	2010006P15Rik BAFF-R Baffr Bcmd Bcmd-1 Bcmd1 Lvis22	tumor necrosis factor receptor superfamily, member 13c
Tnfrsf14	NM_178931.2	Atar HveA Hvem Tnrsf14	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)
Tnfrsf17	NM_011608.1	BCM BCMA Tnfrsf13 Tnfrsf13a	tumor necrosis factor receptor superfamily, member 17
Tnfrsf18	NM_009400.2	AITR Gitr	tumor necrosis factor receptor superfamily, member 18
Tnfrsf1a	NM_011609.2	CD120a FPF TNF-R TNF-R-I TNF-R1 TNF-R55 TNF-alphaR1 TNFAR TNFR60 TNFRI TNFRp55 TNFAlpha-R1 Tnfr-2 Tnfr1 p55 p55-R	tumor necrosis factor receptor superfamily, member 1a
Tnfrsf1b	NM_011610.3	CD120b TNF-R-II TNF-R2 TNF-R75 TNF-alphaR2 TNFBR TNFR80 TNFRI TNFAlpha-R2 Tnfr-1 Tnfr2 p75	tumor necrosis factor receptor superfamily, member 1b
Tnfrsf4	NM_011659.2	ACT35 CD134 Ly-70 Ox40 TXGP1L Txgp1	tumor necrosis factor receptor superfamily, member 4
Tnfrsf8	NM_009401.2	Cd30 D1S166E Ki Ki-1	tumor necrosis factor receptor superfamily, member 8
Tnfrsf9	NM_001077508.1	4-1BB A930040I11Rik AA408498 AI325004 CDw137 Cd137 ILA Ly63	tumor necrosis factor receptor superfamily, member 9
Tnfsf10	NM_009425.2	A330042I21Rik AI448571 APO-2L Ly81 TL2 Trail	tumor necrosis factor (ligand) superfamily, member 10
Tnfsf11	NM_011613.3	Ly109 ODF OPG OPGL RANKL Trance	tumor necrosis factor (ligand) superfamily, member 11
Tnfsf12	NM_011614.3	Apo3 Dr3 Dr3lg Tweak	tumor necrosis factor (ligand) superfamily, member 12
Tnfsf13	NM_023517.2	2310026N09Rik April Tall2 Trd1	tumor necrosis factor (ligand) superfamily, member 13
Tnfsf13b	NM_033622.1	BAFF BlyS D8Erd387e TALL-1 TALL1 THANK TNFSF20 zTNF4	tumor necrosis factor (ligand) superfamily, member 13b
Tnfsf14	NM_019418.2	HVEM-L HVEML LIGHT LTg Ly113	tumor necrosis factor (ligand) superfamily, member 14
Tnfsf15	NM_177371.3	TI1 TI1a Vegi	tumor necrosis factor (ligand) superfamily, member 15
Tnfsf18	NM_183391.3	Gitr	tumor necrosis factor (ligand) superfamily, member 18
Tnfsf4	NM_009452.2	Ath-1 Ath1 CD134L OX-40L Ox40 TXGP1 Txgp1 gp34	tumor necrosis factor (ligand) superfamily, member 4
Tnfsf8	NM_009403.2	CD153 CD30LG Cd30I	tumor necrosis factor (ligand) superfamily, member 8
Tollip	NM_023764.3	4930403G24Rik 4931428G15Rik	toll interacting protein
Tpsab1	NM_031187.4	MMCP-7 Mcp-7 Mcp7 Mcp7	tryptase alpha/beta 1
Traf2	NM_009422.2	AI325259	TNF receptor-associated factor 2
Traf3	NM_001048206.1	AI528849 CAP-1 CD40bp CRAF1 LAP1 T-BAM amn	TNF receptor-associated factor 3
Traf6	NM_009424.2	2310003F17Rik AI851288 C630032O20Rik	TNF receptor-associated factor 6
Trem1	NM_021406.5	-	triggering receptor expressed on myeloid cells 1
Trem2	NM_031254.2	TREM-2 Trem2a Trem2b Trem2c	triggering receptor expressed on myeloid cells 2
Trp53	NM_011640.1	Tp53 bb bfy bhy p44 p53	transformation related protein 53
Twist1	NM_011658.2	AA960487 M-Twist Pde Ska10 Ska<m10Jus> Twist bHLHa38 pdt	twist basic helix-loop-helix transcription factor 1
Txk	NM_001122754.1	A130089B16Rik Btkl PTK-RL-18 PTK4 Rik	TXK tyrosine kinase
Txnip	NM_023719.1	1200008J08Rik AA682105 Hyp1p1 THIF Tbp-2 VDUP1	thioredoxin interacting protein
Tyk2	NM_001205312.1	JTK1	tyrosine kinase 2
Ubc	NM_019639.4	2700054O04Rik AI194771 Rps27a TI-225 Uba52 Ubb	ubiquitin C
Ubp1	NM_029975.2	A430108B07Rik MULT1	UL16 binding protein 1
Usp18	NM_011909.2	1110058H21Rik AW047653 UBP43 Ubp15	ubiquitin specific peptidase 18
Usp9y	NM_148943.2	Dffry Faf12	ubiquitin specific peptidase 9, Y chromosome
Vcam1	NM_011693.2	CD106 Vcam-1	vascular cell adhesion molecule 1
Vegfa	NM_001025250.3	Vegf Vpf	vascular endothelial growth factor A
Vegfc	NM_009506.2	AW228853 VEGF-C	vascular endothelial growth factor C
Vhl	NM_009507.3	Vhlh	von Hippel-Lindau tumor suppressor
Vim	NM_011701.4	-	vimentin
Vwf	NM_011708.3	6820430P06Rik AI551257 B130011O06Rik C630030D09 F8VWF VWD	Von Willebrand factor homolog
Xaf1	NM_001037713.3	Fbxo39	XIAP associated factor 1
Xbp1	NM_013842.2	D11Erd39e TREB-5 TREB5 XBP-1	X-box binding protein 1
Xcl1	NM_008510.1	AI661682 ATAC LTN Lptn SCM-1 SCM-1a Scyc1	chemokine (C motif) ligand 1
Xcr1	NM_011798.4	Cxcr1 Gpr5 mXcr1	chemokine (C motif) receptor 1
Ythdf2	NM_145393.4	9430020E02Rik HGRG8 NY-REN-2	YTH domain family 2
Yy1	NM_009537.3	AW488674 NF-E1	YY1 transcription factor
Zap70	NM_009539.2	Srk ZAP-70 mrtle mur	zeta-chain (TCR) associated protein kinase
Zbp1	NM_021394.2	2010010H03Rik Dai Dlm1 mZaDLM	Z-DNA binding protein 1
Zfp13	NM_011747.2	4933429B21 AI835008 Krox-8 Rhit Zfp-13	zinc finger protein 13
Internal Reference Genes			
Abcf1	NM_013854.1	AU041969 Abc50 D17Wsu166e GCN20	ATP-binding cassette, sub-family F (GCN20), member 1
Alas1	NM_020559.2	ALAS ALAS-N Alas-1 Alas-h	aminolevulinic acid synthase 1
Edc3	NM_153799.3	AA517853 Lsm16 Yjdc	enhancer of mRNA decapping 3 homolog (S. cerevisiae)
Eef1g	NM_026007.4	2610301D06Rik AA407312 EF1G	eukaryotic translation elongation factor 1 gamma
Eif2b4	NM_001127355.1	Eif2b	eukaryotic translation initiation factor 2B, subunit 4 delta
G6pdx	NM_008062.2	G28A G6pd Gpdx	glucose-6-phosphate dehydrogenase X-linked
Gusb	NM_010368.1	AI747421 Gur Gus Gus-r Gus-s Gus-t Gus-u Gut asd g	glucuronidase, beta
Hdac3	NM_010411.2	AW537363	histone deacetylase 3

Hprt	NM_013556.2	C81579 HPGRT Hprt1	hypoxanthine guanine phosphoribosyl transferase
Nubp1	NM_011955.2	-	nucleotide binding protein 1
Oaz1	NM_008753.4	AZ-1 AZ1 Antizyme ODC-Az Oaz	ornithine decarboxylase antizyme 1
Polr1b	NM_009086.2	128kDa D630020H17Rik RPA116 RPA135 RPA2 Rpo1-2	polymerase (RNA) I polypeptide B
Polr2a	NM_009089.2	220kDa Rpb1 Rpo2-1	polymerase (RNA) II (DNA directed) polypeptide A
Ppia	NM_008907.1	2700098C05 Cphn Cyp-18 CypA	peptidylprolyl isomerase A
Rpl19	NM_009078.2	-	ribosomal protein L19
Sap130	NM_172965.2	2610304F09Rik 6720406D06	Sin3A associated protein
Sdha	NM_023281.1	1500032O14Rik 2310034D06Rik 4921513A11 C81073 FP SDH2 SDHF	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
Sf3a3	NM_029157.3	4930512K19Rik 60kDa	splicing factor 3a, subunit 3
Tbp	NM_013684.3	GTF2D1 Gtf2d SCA17 TFIID	TATA box binding protein
Tubb5	NM_011655.4	AA408537 A1596182 B130022C14Rik M(beta)5	tubulin, beta 5 class I