

nCounter® Mouse Myeloid Innate Immunity V2 Panel - Gene and Probe Details

Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or Isoform Information
ZB10417H3RIK	NM_026515.2	p15(PAF), Pcdaf	RIKEN cDNA 2810417H13 gene	
Z900026A02RIK	NM_172884.3	Gm449, LOC231620	RIKEN cDNA 2900026A02 gene	
Abcc6	NM_011510.3	SUR1, Sur, D930031B21RIK	ATP-binding cassette, sub-family C (CFTR/MRP), member 8	
Acd10	NM_020377.4	A100217P16RIK	acyl-Coenzyme A dehydrogenase family, member 10	
Acl	NM_134037.2	A73009H4RIK	ATP citrate lyase	
Acd1	NM_008392.1	Irg1	aconitate decarboxylase 1	
Acd11	NM_025590.4	Thea, Z1010309H15RIK, 1110020M10RIK, Them1, BFIT1	acyl-CoA thioesterase 11	
Acd13	NM_134246.3	PTE-1a, Pte2a	acyl-CoA thioesterase 3	
Acox1	NM_015729.2	Acyl-CoA oxidase, AOX, D130055E20RIK	acyl-Coenzyme A oxidase 1, palmitoyl	
Adam19	NM_009616.4	Mtro8	a disintegrin and metalloproteinase domain 19 (metrin beta)	
Adam8	NM_007403.2	CD156a, MS2, E430039A18RIK, CD156	a disintegrin and metalloproteinase domain 8	
Adamts1	NM_009621.4	ADAM-TS1, ADAMTS1, METH-1, METH1	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 1	
Adamts2	NM_175501.2		a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 12	
Adamts14	NM_001081127.1	Adamts-14, TS14	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 14	
Adamts17	NM_001033877.4	AU023434	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 17	
Adamts2	NM_001277305.1	hPCPM1, ADAM-TS2, a disintegrin and metalloproteinase with thrombospondin repeats, procollagen N-proteinase	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 2	
Adamts3	NM_001081401.2	6330442E02RIK, 1100001H14RIK	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 3	
Adamts4	NM_172845.2	ADAM-TS4, aggrecanase-1	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 4	
Adams9	NM_175314.3	1810011L16RIK, E030027K14RIK, 8430403M15RIK	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 9	
Adcyap1r1	NM_001025372.1	PAC1, PAC1R, PACAP1-R, 290024I10RIK	adenylyl cyclase activating polypeptide 1 receptor 1	
Adgre1	NM_010130.1	DD7A5-7, TM7LN3, F4/80, Emr1, EGF-TM7, Ly71	adhesion G protein-coupled receptor E1	
Adgre5	NM_011925.1	Cd97, EGF-TM7 receptor	adhesion G protein-coupled receptor E5	
Adora2a	NM_009630.2	A2a, Rs, A2aR, AA2AR, A2AAR	adenosine A2a receptor	
Adora3	NM_009631.4	1700201D09RIK, ARA3, 4930578J19RIK, A3AR, AA3R, Gprc 2, A3R	adenosine A3 receptor	
Aif1	NM_019467.2	G1, Iba1, D17H650E	allograft inflammatory factor 1	
Akap13	NM_029332.1	AKAP-Lbc, 1700026G02RIK, 5730522G15RIK, Hh31, PROTO-LB, 583046E08RIK, PROTO-LBC	A kinase (PKKA) anchor protein 13	
Alcam	NM_009655.1	BEN, DM-GRASP, SCI1, MuSC, CD166	activated leukocyte cell adhesion molecule	
Alox15	NM_009660.3	L-12LO, 12-L0, Alox12l	arachidonate 15-lipoxygenase	
Alox5	NM_009662.2	S10, SLX, S-LCX	arachidonate 5-lipoxygenase	
Alox5ap	NM_009663.1	Flap, arachidonate 5 lipoxygenase activating protein	arachidonate 5-lipoxygenase activating protein	
Amica1	NM_001005421.4	LOC270152	adhesion molecule, interacts with CXADR antigen 1	
Angpt1	NM_009640.3	1110046O21RIK, Ang-1, Angiopoietin-1, ang1	angiopoietin 1	
Angpt2	NM_007426.3	Ang-2, Ang-2	angiopoietin 2	
Anxa1	NM_010730.2	Lgc-1, C430014K04RIK, Anx-A1, Anx-1, Lpc1	annexin A1	
Anxa4	NM_013471.2	Anxa, Xan-4, annexin IV, ANV	annexin A4	
Apoa	NM_01281854.1	493043E13RIK	acylglucosyl hydrolase	
Apoe	NM_001305844.1		apolipoprotein E	
Arg	NM_009704.3	Mclub, AR, Sgdf	amphiregulin	
Arf6	NM_007481.2		ADP-ribosylation factor 6	
Arg1	NM_007482.3	PGIF, Ai, Arg-1	arginase, liver	
Arhgef28	NM_012026.2	D138wg108E, RhoGEF, Rho specific exchange factor, RIF2, Rgnef, 9230110U08RIK, p190RHOGEF	Rho guanine nucleotide exchange factor (GEF) 28	
Arhgef6	NM_152801.2	493059ZP22RIK, alpha-PiX, 1700038J06RIK, 1600028C08RIK	Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6	
Armrc1	NM_028840.2	Z310016N5RIK, 3110009G21RIK, Arcp, 2900046P06RIK, C330014L16RIK	armadillo repeat containing 1	
Arf3	NM_007498.3	LRG-21	activating transcription factor 3	
Bdgat4	NM_019804.3	91300402D08RIK	UDP-Gal-beta(1-4)GalNAc-6-epi-S-galactosyltransferase, polypeptide 4	
Batf	NM_016767.2	SFA-2, B-ATF	basic leucine zipper transcription factor, ATF-like	
Batf3	NM_030060.2	913021103RIK	basic leucine zipper transcription factor, ATF-like 3	
Bcl10	NM_009740.1	ce10, mE10, BCL-10	B cell leukemia/lymphoma 10	
Bcl2	NM_009741.3	Bcl-2, D830018M01RIK, C430015F12RIK	B cell leukemia/lymphoma 2	
Bcl6	NM_009744.3	Bcl5	B cell leukemia/lymphoma 6	
Bcl7	NM_007544.3	Z70049M22RIK	Bcl7 interacting domain death agonist	
Birc2	NM_007465.2	ciAP1, IAP1, MIAP1, mciAP1, MIH8, HIAP1, cIAP-1, Api1	baculoviral IAP repeat-containing 2	
Birc3	NM_007464.3	RNF49, HIAP2, MIHC, IAP2, ciAP-2, MIAP2, ciAP2, Api2	baculoviral IAP repeat-containing 3	
Birc5	NM_009689.2	TIAP, Api4, survivin	baculoviral IAP repeat-containing 5	
Bmp6	NM_007556.2	Vgr1, D13Wms115E	bone morphogenetic protein 6	
Bmp9a	NM_0125019.1	Bmp7l, bone morphogenetic protein 2, OP2	bone morphogenetic protein 9a	
Btg2	NM_007570.2	APB21, PC3, TIS21	B cell translocation gene 2, anti-proliferative	
Btk	NM_013482.2	X-linked immune deficiency, xid, Bruton's tyrosine kinase	Bruton agammaglobulinemia tyrosine kinase	
Bta	NM_001037719.2		B and T lymphocyte associated	
C1qa	NM_007572.2	C1q	complement component 1, q subcomponent, alpha polypeptide	
C1qb	NM_009777.2		complement component 1, q subcomponent, beta polypeptide	
C1qc	NM_007574.2	C1g	complement component 1, q subcomponent, C chain	
C3	XM_011246258.1	acylation stimulating protein, Plp, complement factor 3	complement component 3	
C3ar1	NM_009779.2	C3ar, anaphylatoxin C3a receptor	complement component 3a receptor 1	
C4a	NM_011413.2	Slp	complement component 4A (Rodgers blood group)	C4b (NM_009780)
C5ar1	NM_007577.3	C8B8, D7Msu1, C5r1, C5ar	complement component 5a receptor 1	
Calr	NM_007591.3	CR7, Calretalin	calreticulin	
Camp	NM_009921.2	Cmlp, MCLP, FALL39, CAP18, Cramp	cathelicidin antimicrobial peptide	
Casp1	NM_009807.2	Interleukin 1 beta-converting enzyme, ICE, I1bc, Caspase-1	caspase 1	
Casp7	NM_007611.2	ICE-IAP3, caspase-7, Mch3, CMH-1	caspase 7	
Cav1	NM_007616.3	caveolin-1, Cav-1	caveolin 1, caveolae protein	
Cbr1	NM_007620.2	CR	carbonyl reductase 1	
Ccl1	NM_011332.2	e309, Tca-3, Sca1, CCR8 ligand	chemokine (C-C motif) ligand 1	
Ccl11	NM_011330.3	Sca1s1, eotaxin	chemokine (C-C motif) ligand 11	
Ccl12	NM_011331.2	MCP-5, Sca12	chemokine (C-C motif) ligand 12	
Ccl17	NM_011332.2	Sca17, ABCD-2, TARC	chemokine (C-C motif) ligand 17	
Ccl19	NM_011888.2	eodius-3, Sca19, CKb11	chemokine (C-C motif) ligand 19	
Ccl2	NM_011333.3	Sgllg, Sca2, MCP-1, monocyte chemoattractant protein, HC11, SMC-CF, MCAF, monocyte chemoattractant protein-1, MCP-1	chemokine (C-C motif) ligand 2	
Ccl20	NM_0116960.1	MIP-3[a], exodus-1, MIP3A, MIP-3a, Sca20, Ckb4, 5T38	chemokine (C-C motif) ligand 20	
Ccl21a	NM_011124.4	Sca21b, 6CKBAC2, SLX, Exodus-2, Ckb9, ALP, Tca4, Sca21, 6Ckine	chemokine (C-C motif) ligand 21A (serine)	Ccl21b (NM_023052), Gm13304 (NM_001193666), Gm1987 (NM_001193667), Ccl21b (NM_011335)
Ccl22	NM_009137.2	MDC, Sca22, ABCD-3	chemokine (C-C motif) ligand 22	
Ccl24	NM_009177.4	eotaxin-2, Sca24, MIPF-2, Cxb-6	chemokine (C-C motif) ligand 24	
Ccl25	NM_009138.3	TECK, CKb15, Sca25	chemokine (C-C motif) ligand 25	
Ccl26	NM_001013412.2	Ccl26l, eotaxin-3	chemokine (C-C motif) ligand 26	
Ccl27a	NM_001048179.1	Sca27a, Sca27, skinskine, CTAk, Ccl27, ALP, mLCK, PESKY, CTAck, ILC, E5kine, E5kine	chemokine (C-C motif) ligand 27A	Ccl27b (NM_001199960, NM_001199961), Gm2002 (NM_001100596), Gm13306 (NM_001164046)
Ccl28	NM_020279.3	Sca28, CXCL1	chemokine (C-C motif) ligand 28	
Ccl3	NM_011337.1	Mip1a, MIP1-[-a], Sca3, LD78alpha, GDS19-1, MIP-1alpha, macrophage inflammatory protein-	chemokine (C-C motif) ligand 3	
Ccl4	NM_013652.1	Act-2, MIP-1B, MIP-1 beta, Sca4, AT744.1, Mip1b	chemokine (C-C motif) ligand 4	
Ccl5	NM_013653.1	Sca5, RANTES, TCP228, Muftantes, S1SD	chemokine (C-C motif) ligand 5	
Ccl6	NM_009139.2	MRP-1, c10, Sca6	chemokine (C-C motif) ligand 6	
Ccl7	NM_013654.3	hc-MCP3, mhc, mcp3, Sca7	chemokine (C-C motif) ligand 7	
Ccl8	NM_021443.2	18100638Z0RIK, Sca8, HC14, MCP-2	chemokine (C-C motif) ligand 8	
Ccl9	NM_011338.2	CCF18, Sca10, MRP-2, MIP-1 gamma, Sca9	chemokine (C-C motif) ligand 9	
Ccnb2	NM_007630.2	CycB2	cyclin B2	
Ccr1	NM_009912.4	Cmkb1r1	chemokine (C-C motif) receptor 1	
Ccr2	NM_009915.2	CCR2b, CCR2A, Cmkb2r, CCR2A, CCR2, CCR2B, CC-CR2	chemokine (C-C motif) receptor 2	
Ccr3	NM_009914.4	CCR3, Cmkb3r, CC-CR3, MIP-1 alphanR2	chemokine (C-C motif) receptor 3	
Ccr4	NM_009916.2	CC-CR4, Cmkb4r	chemokine (C-C motif) receptor 4	
Ccr5	NM_009917.5	Cmkb5r, CD195	chemokine (C-C motif) receptor 5	
Ccr6	NM_001190333.1	Cmkb6r	chemokine (C-C motif) receptor 6	
Ccr7	NM_007719.2	CD197, Cmkb7r, Ebl1t, Ebl1	chemokine (C-C motif) receptor 7	
Ccr8	NM_007720.2	Cmkb8r	chemokine (C-C motif) receptor 8	
Ccr9	NM_009913.6	Cmkb9r1D, GPR-9-6	chemokine (C-C motif) receptor 9	
Ccr12	NM_017466.4	LCCR, CCR11, Aclv5, Cmkb12I2, 181004705RIK	chemokine (C-C motif) receptor-like 2	
Cd14	NM_009841.3		CD14 antigen	
Cd151	NM_009842.3	Tspan24, SFA-1, PETA-3	CD151 antigen	
Cd163	NM_053094.2		CD163 antigen	
Cd180	NM_008533.2	RP105, Ly78	CD180 antigen	
Cd1d1	NM_007639.3	CD1.1, Ly-38, Cd1a, Cd1d	CD1d1 antigen	
Cd1d2	NM_007640.2	CD1.2, Cd1b	CD1d2 antigen	
Cd209e	NM_130905.2	mSIGNRA, SIGNR4	CD209e antigen	
Cd244	NM_018729.2	Nmrk, C9, 1, 284, F730046O15RIK	CD244 natural killer cell receptor 2B4	
Cd247	NM_001113391.2	4930549O5RIK	CD247 antigen	
Cd27	NM_001042564.1	Tnfrsf7, tp55, S152, Cd27	CD27 antigen	
Cd274	NM_021893.2	B7-H1, PD-L1, Pcdcd1g1	CD274 antigen	
Cd276	NM_133983.4	B7-H3, 6030411F23RIK, B7h3, B7RP-2	CD276 antigen	
Cd28	NM_007842.4		CD28 antigen	
Cd34	NM_0111059.1		CD34 antigen	
Cd36	NM_007843.3	fatty acid translocase, Scarb3, FAT	CD36 antigen	
Cd38	NM_007846.4	Cd38-rs1	CD38 antigen	
Cd40	NM_011611.2	p50, Bp50, Tnfrsf5, Cd40	CD40 antigen	
Cd40lg	NM_011616.2	Tnfrsf5, HIGM1, gp39, Cd40L, CD154, T-BAM, Ly-62, IMD3	CD40 ligand	

Cd44	NM_00851.2	Pgp-1, HERMES, Ly-24	CD44 antigen
Cd47	NM_010581.3	Integrin-associated protein, B430305P08Rk, Itgp, 9130415E20Rik, IAP	CD47 antigen (Rh-related antigen, Integrin-associated signal transducer)
Cd68	NM_009853.1	macrophage, Scard1, Lamp4, gp110	CD68 antigen
Cd69	NM_00131222.2	NM_VG_583204S042Rk	CD69 antigen
Cd70	NM_011617.1	CD27LG, Tnfr7, Ki-24 antigen	CD70 antigen
Cd74	NM_001042605.1	CLIP, II	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)
Cd80	NM_009855.2	B7-1, Ly53, Cd28B, B7.1, Ly-53	CD80 antigen
Cd83	NM_009856.2		CD83 antigen
Cd84	NM_00125272.1	SLAMF5, CDw84, A130013D22Rk	CD84 antigen
Cd86	NM_019388.3	B70, Cd282, B7-2, Ly-S8, Ly58, MB7-2, B7.2	CD86 antigen
Cd99	NM_025584.2	D4, 2410026K10Rik, plir-1, 1110061M03Rik	CD99 antigen
Cd120	NM_023223.2	2310042N09Rik, p55SCD	cell division cycle 20
Cd11	NM_009864.2	E-cadherin, uvomorulin, UM, L-CAM, Ecad, E-cad	cadherin 1
Cd111	NM_009866.4	osteoblast-cadherin, OB-cadherin, Cad11	cadherin 11
Cd113	NM_019707.4	T-cadherin, Tcad, 4932416G01Rk	cadherin 13
Cd12	NM_007664.4	N-Cad, N-cadherin, Ncad	cadherin 2
Cd14	NM_001316723.1	R-Cadh, R-cadherin, Rcad	cadherin 4
Cd15	NM_009868.3	7B4/cadherin-5, CD144, VE-Cad, VECD, VEC, VE-cadherin, VECad	cadherin 5
Cd15a	NM_007669.4	CD15, SD11, p21Cp1, CDP1, CAP20, Cd15l, Waf1, mda6, P21, p21WAF	cyclin-dependent kinase inhibitor 1A (P21)
Ceacam1	NM_001039185.1	mCEA1, nmCGM2, C-CAM	carcinoembryonic antigen-related cell adhesion molecule 1
Ceacam2	NM_007543.4	Bgp2	carcinoembryonic antigen-related cell adhesion molecule 2
Ceba	NM_007678.3	Cebp, C/EBP alpha, C/ebpalpha	CCAAT/enhancer binding protein (C/EBP), alpha
CEBPB	NM_009883.3	C/EBPBeta, NF-M, CRP2, LAP, LIP, IL-6DBP, NF-IL6, C/EBP Beta, Nfl6	CCAAT/enhancer binding protein (C/EBP), beta
Cebpdl	NM_007979.4		CCAAT/enhancer binding protein (C/EBP), delta
Cebpg	NM_009884.3	C/EBPgamma, Ig/EBP, Gpe1bp, GPE1-BP	CCAAT/enhancer binding protein (C/EBP), gamma
Ch13	NM_009892.2	Ym1, Ch313	chitinase-like 3
Ch14	NM_145126.2	Ym2, Ch314	chitinase-like 4
Ch15	NM_016674.3		Ch13 (NM_009892)
Cldn1	NM_016674.3	Clec2, Clec2, 1810061I13Rk	claudin 1
Clec1b	NM_001024293.1	MOL-1, LY100, myeloid DAP12-associating lectin-1, Clec5f5	C-type lectin domain family 1, member b
Clec3a	NM_00138604.1	Dectn-1, beta-galactin receptor, beta-GR, BGR, Clec3f2	C-type lectin domain family 3, member a
Clec3b	NM_020008.2	DNGR-1, 983005G06Rk	C-type lectin domain family 7, member a
Clec3c	NM_172732.3	mC35, mILC, D01mb3	C-type lectin domain family 9, member a
Clec4	NM_013885.2	M MCP-5, Mcp5, Mcp-5, Mcp5	chloride intracellular channel 4 (mitochondrial)
Cma1	NM_010780.3	h2-calponin, Calp2	chymase 1, mast cell
Cmir1	NM_001081947.1	1300003G02Rik, Ukr1, Dpck, Ppat	connector enhancer of kinase suppressor of Ras 1
Cmn2	NM_007725.2	Col10a1, Col10a-1	calponin 2
Coasy	NM_001035982.1	Col10a1, Col10a-1	Coenzyme A synthase
Col10a1	NM_009925.4	Col10, Col10a-1	collagen, type X, alpha 1
Col11a1	NM_007729.2	CS30001D20Rik	collagen, type XI, alpha 1
Col12a1	NM_007730.2		collagen, type XII, alpha 1
Col14a1	NM_018177.3	5730412L22Rik	collagen, type XIV, alpha 1
Col15a1	NM_009928.3		collagen, type XV, alpha 1
Col17a1	NM_007732.2	Bpag2, BP180, BPAG2, Bpag	collagen, type XVII, alpha 1
Col1a2	NM_007743.2	Col2a, Col2-1, Col1a-2	collagen, type I, alpha 2
Col3a1	NM_009930.1	Col3a-1, Tsk-2, Tsk2	collagen, type III, alpha 1
Col4a1	NM_009931.2	Del(8)(Brn44H, Raw, Svc, Brc)	collagen, type IV, alpha 1
Col4a2	NM_009932.2	Col4a-2, Del(8)(Brn44H, Raw, Svc, Brc)	collagen, type IV, alpha 2
Cpa3	NM_007753.2	MC-CPA, mast cell carboxypeptidase A, mMC-CPA	carboxypeptidase A3, mast cell
Crabp2	NM_007759.2	Crabp1, Crabp-2	cellular retinoic acid binding protein II
Crem	NM_001110853.1	ICER	cAMP responsive element modulator
Crip1	NM_007763.3	CRP1, Crip	cysteine-rich protein 1 (intestinal)
Csf1	NM_00111530.1	colony-stimulating factor-1, CSF-1, M-CSF, Csfm	colony stimulating factor 1 (macrophage)
Csf1r	NM_001037859.1	CD115, Fms, Csfmr, Fim-2, M-CSFR, CSF-1R	colony stimulating factor 1 receptor
Csf2	NM_009969.4	GMCSF, MGI-GM, Csfgm, Gm-CSf	colony stimulating factor 2 (granulocyte-macrophage)
Csf2ra	NM_009970.2	CD116, GM-CSF-Ra, Csfgrma, GM-CSFRalpha	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
Csf3	NM_009971.1	Csf3, G-CSF, MGI-G	colony stimulating factor 3 (granulocyte)
Csf3r	NM_001252851.1	Csf3r, G-CSFR, CD114	colony stimulating factor 3 receptor (granulocyte)
Ctbb	NM_007793.3	ctbb	cystatin B
Ctcf	NM_010217.2	Hcs24, Fisp12, Ccn2, hypertrophic chondrocyte-specific gene product 24	connective tissue growth factor
Cta4	NM_009843.3	Ly-56, Cta-4, Cd152	cytotoxic T-lymphocyte-associated protein 4
Ctnnb1	NM_007614.2	beta-catenin, beta catenin, Ctnnb	catenin (adherin associated protein), beta 1
Ctsa	NM_00108492.2	Pgcb, PPCA	cathepsin A
Ctsb	NM_009883.2	CatD, CD	cathepsin D
Ctsg	NM_007800.1		cathepsin G
Ctsl	NM_009984.3	Cat L, major excreted protein, MEP, 1190035F06Rk	cathepsin L
Ctss	NM_021281.2	Cat S	cathepsin S
Ctnnb2	NM_080285.1	3010022N24Rik, 4732477G22Rik, Cortbp2, ORF4, 9130022E09Rik	cortactin binding protein 2
Cxcl1	NM_009942.3	neurotactin, CXCL, DBW0439e, fractalkine, Scyd1	chemokine (C-X-C motif) ligand 1
Cxcl2	NM_009987.3		chemokine (C-X-C motif) receptor 1
Cxcl10	NM_008176.1	Mgsa, Fsp, KC/GRO-alpha, KC, NS1, Gro1, Scyb1	chemokine (C-X-C motif) ligand 10
Cxcl11	NM_021274.1	gIP-10, Iff10, C7, IP10, INP10, mob-1, CRG-2, IP-10, Scyb10	chemokine (C-X-C motif) ligand 10
Cxcl12	NM_019494.1	SCYB9, IPI9, I-TAC, Scyb11, b-R1, beta1R1, H174, ITAC	chemokine (C-X-C motif) ligand 11
Cxcl13	NM_021704.3	TPAR1, Sdf1b, T1SF-a, Sdf1a, P89F, SDF-1, P89F/SDF-1, T1SF-b, Scyb12, Sdf1	chemokine (C-X-C motif) ligand 12
Cxcl13	NM_009942.3	Scyb13, 4314121M03Rk, Bca-1, BLC, ANG12	chemokine (C-X-C motif) ligand 13
Cxcl14	NM_019568.2	KCC, MIP-2g, 1200006I23Rik, Scyb14, BRAC, 1110031L23Rk	chemokine (C-X-C motif) ligand 14
Cxcl16	NM_023158.6	SR-PSOX/CXCL16, SR-PSOX, D910001K24Rik, Scavenger Receptor	chemokine (C-X-C motif) ligand 16
Cxcl2	NM_009140.2	MIP-2a, Mgsa-b, GROb, Gro2, CINC-2a, MIP-2, Scyb2, Mip2, Scyb	chemokine (C-X-C motif) ligand 2
Cxcl3	NM_203320.2	Dcp1	chemokine (C-X-C motif) ligand 3
Cxcl5	NM_009141.2	Scyb5, Cxcl6, granulocyte chemotactic protein-2, GCP-2, AMCF-II, ENA-78, LIX, Scyb6	chemokine (C-X-C motif) ligand 5
Cxcl9	NM_009142.2	CMK, Scy09, Mig, 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	IL-8rb, Cmxk2, CD128, Gpcr16, H8rb, IL8Ra, IL-8RH	chemokine (C-X-C motif) receptor 2
Cxcr3	NM_009910.2	Cd183, Cxcr3, Cmxk3	chemokine (C-X-C motif) receptor 3
Cxcr4	NM_009911.3	Sdf1r, b2b22C10, PB-CR, fusin, CD184, Cmxk4	chemokine (C-X-C motif) receptor 4
Cxcr5	NM_007951.2	APCR, CxCR-5, Bhr1	chemokine (C-X-C motif) receptor 5
Cxcr6	NM_030712.4	STRL33, BONZO	chemokine (C-X-C motif) receptor 6
Cybb	NM_007807.2	Cgd, gp91phox, Nox2	cytochrome b-245, beta polypeptide
Cyp11b1	NM_009994.1		cytochrome P450, family 1, subfamily B, polypeptide 13
Cyp3a11	NM_007819.4	IIIaM2, steroid inducible	cytochrome P450, family 3, subfamily A, polypeptide 13
Cyp61	NM_010516.1	CN1	cysteine rich protein 61
Cytlr1	NM_0214635.1	leukotriene D4 receptor, Cystl1r, cysteinyl leukotriene 1 receptor	cysteinyl leukotriene receptor 1
Cytlp	NM_192000.4	Cybr, Pscd9, Cbp, A130053M09Rik	cystinyl interacting protein
Daglb	NM_144915.3	E33003619Rik	diacylglycerol lipase, beta
Daxx	NM_007829.3		Fas death domain-associated protein
Ddr2	NM_022563.2	Ntrk3	discoidin domain receptor family, member 2
Des	NM_010043.1		desmin
Dhrs3	NM_011303.6	Rsdrl, reSDR1	dehydrogenase/reductase (SDR family) member 3
Dnajb6	NM_011847.4	mDj4, Mrj	Dnaj heat shock protein family (Hsp40) member B6
Dpp4	NM_001159543.1	Cd26, THAM, Dpp-4	dipeptidylpeptidase 4
Dusp1	NM_013642.3	Ptpn16, erp, mkp-1, MKP1, 3CH134	dual specificity phosphatase 1
Dusp2	NM_010990.2	PAC1	dual specificity phosphatase 2
Dusp6	NM_026582.2	MKP5, MKP-3, 1300019I03Rk, PYST1	dual specificity phosphatase 6
Ear3	NM_017388.1	Rnase3, mR3, murine ribonuclease 3	eosinophil-associated, ribonuclease A family, member 3
Ear6	NM_053111.2		eosinophil-associated, ribonuclease A family, member 6
Ear7	NM_010104.2	ET-1	endothelin 1
Eg1	NM_010113.3		epidermal growth factor
Egr2	NM_010118.2	Zfp-25, NGF1-B, Egr-2, Krox20, Krox-20	early growth response 2
Egr3	NM_018781.2	Pilot	early growth response 3
EIF4ebp2	NM_010124.2	PHAS-II, 4E-BP2, 2810011I19Rik	eukaryotic translation initiation factor 4E binding protein 2
Elane	NM_015779.2	Ela2, F430011M15Rik, NE	elastase, neutrophil expressed
Elk2	NM_138953.2		elongation factor RNA polymerase II 2
Elavl3	NM_130450.2	FEN1/El02, SUR4/El02-like, LCE	ELOVL family member 6, elongation of long chain fatty acids (yeast)
Emp1	NM_010128.4		epithelial membrane protein 1
En1	NM_010133.2	En-1, engrailed-1, Mo-en-1	engrailed 1
Enc1	NM_007930.3	PIG10, Nrpb	ectodermal-neural cortex 1
Enppp	NM_007934.3	Ly51, Ly-S1, aminopeptidase-A, Bp-1/GC3, 6030431M22Rik, APA	glutaryl aminopeptidase
Enpp2	NM_001136077.2	ATX, PD-alpha, Pdpn2, Autotaxin, Npps2	ectonucleotide pyrophosphatase/phosphodiesterase 2
Ephb6	NM_001146351.1	Caek1, Mep	Eph receptor B6
Epx	NM_007946.2	EPD	eosinophil peroxidase
Erc1	NM_007948.2	Erc-1	excision repair cross-complementing rodent repair deficiency, complementation group 1
Erg	NM_133659.2	D030036I24Rik	avian erythroblastosis virus E26 (v-ets) oncogene related
Et1	NM_001038642.1	pS1Et1-1, Ets-1, vs, p42Et1-1, Tpl1	E26 avian leukemia oncogene 1, 5' domain
F11r	NM_172847.2	JAM-1, ESTM33, BV11 antigen, icam1, JAM-A, Ly106	F11 receptor
Fabp4	NM_024006.2	Aq2, ALBP/Aq2, 422/aP2, Lbp1	fatty acid binding protein 4, adipocyte
Fadd	NM_010175.5	Mort1/FADD	Fas (TNFRSF6)-associated via death domain
Faf1	NM_007983.2	Fam, Dfrx	Fas-associated factor 1
Fas	NM_007987.2	Tnfrsf6, APO-1, TNFR6, CD95	Fas (TNF receptor superfamily member 6)
Fasn	NM_007988.3	A630082H08Rik, FAS	fatty acid synthase
Fbp1	NM_019395.2	Fbp3, FBPase liver, FBPase brain isoform, Fbp-2	fructose bisphosphatase 1
Fcbr1	NM_176959.3	Nlr7, D120018M15Rik, Fcbr	F-bbox and lectin-rich repeat protein 7
Fcbr1a	NM_010184.1	Fcr-5, Fc2a1a, Fc2R1	Fc receptor, IgE, high affinity I, alpha polypeptide
Fcbr2a	NM_001253737.1	FC epsilon RI, CD23, Fc2c, Ly-42, low-affinity IgE receptor	Fc receptor, IgE, low affinity II, alpha polypeptide
Fcgr1	NM_010186.5	CD64, FcgammaRI	Fc receptor, IgG, high affinity I
Fcgr2b	NM_00107189.1	Ly-17, CD32, LyM-1, Fc gamma RIIB, Ly-m20, Fcr-2, Fcr-3, F630109E10Rik, FcIgRII, FcgrIIi	Fc receptor, IgG, low affinity IIB
Fcgr3	NM_010188.5	CD16, FcgammaRIIb, Fcgr receptor III	Fc receptor, IgG, low affinity III

Fcgr4	NM_144559.1	CD16-2, 4833442P21RIK, Fcgr3a, FcgammaRIIV	Fc receptor, IgG, low affinity IV	
Fcgb	NM_010190.1		ficilin B	
Fem1c	NM_173423.4	3632443A22RIK, 2610312A07RIK	Fem-1 homolog c (C. elegans)	
Fgf10	NM_008002.4	FGF-10, AY17, G65eq47	fibroblast growth factor 10	
Fgf18	NM_008005.1	FGF-18, D130055P09RIK	fibroblast growth factor 18	
Fgf2	NM_008006.2	Fgf-2, FgfB, bFGF	fibroblast growth factor 2	
Fgf7	NM_008008.4	Keratinocyte growth factor, Kgf	fibroblast growth factor 7	
Fgf11	NM_001079908.2	Hspg, Fgfr-1, Eask, Fk-2	fibroblast growth factor receptor 1	
Fhb	NM_134860.1		Filamin, beta	
Fh2	NM_3201518.4		fibronectin leucine rich transmembrane protein 2	
Flt1	NM_010228.3	VEGFR1, vascular endothelial growth factor receptor-1, Flt-1, sFlt1, VEGFR-1	FMS-like tyrosine kinase 1	
Flt3	NM_010229.2	Flt-3, CD135, Flk2, Flk-2, wmf1	FMS-like tyrosine kinase 3	
Fn1	NM_010233.1	Fn, Fn-1	fibronectin 1	
Fosb	NM_008036.2		FBJ osteosarcoma oncogene B	
Fosl1	NM_010357.2	Fra1, Fra-1	fos-like antigen 1	
Fpr1	NM_013521.2	FPR, FMFL-R	formyl peptide receptor 1	
Fpr2	NM_008039.2	Fpr-rs2, E330010I07RIK	formyl peptide receptor 2	
Fpr3	NM_008042.2	Fpr1L, Lx4f4, Fpr-rs1, LxM4-R	formyl peptide receptor 3	
Fpr-rs3	NM_008040.2		formyl peptide receptor, related sequence 3	
Fpr-rs4	NM_008041.2		formyl peptide receptor, related sequence 4	
Fpr-rs5	NM_01151.1	E6G27050	formyl peptide receptor, related sequence 5	
Fpr-rs6	NM_177316.2		formyl peptide receptor, related sequence 6	
Fscn1	NM_007984.2	Fan1, fascin-1	fascin actin-bundling protein 1	
Furin	NM_011046.2	Fur, PAEC, Pcsk3, SPC1, 913040A01RIK	furin (paired basic amino acid cleaving enzyme)	
Fur4	NM_010242.3	FucT-IV, LeX, Ssea1, FAL, SSEA-1, 3-Fucosyl-N-acetyl-lactosamine epitope	fucosyltransferase 4	
Fyn	NM_008054.2	Src kinase p59	Fyn protein-tyrosine kinase	
Fzd4	NM_008055.4	Fzd4	frizzled class receptor 4	
Fzd6	NM_00162494.1	Fz6	frizzled class receptor 6	
Fzd9	NM_010246.1	mfr9, frizzled 9	frizzled class receptor 9	
Gadd45b	NM_008655.1	Myd118	growth arrest and DNA-damage-inducible 45 beta	
Gata1	NM_008089.1	Gata-1, Gf-1	GATA binding protein 1	
Gata2	NM_008090.4	Gata-2	GATA binding protein 2	
Gata3	NM_008091.3	Gata-3, ja1	GATA binding protein 3	
Gata6	NM_010258.3		GATA binding protein 6	
Gch1	NM_008102.3	GTP-CH, GTPCH	GTP cyclohydrolase 1	
Gem	NM_010276.3		GTP binding protein (gene overexpressed in skeletal muscle)	
Gls	NM_017352.4	G630067D2ARIK, C330018K18RIK	glyoxylase 5 (putative)	
Gli1	NM_009149.2	CFR, MG-160, MG160, CFR-1, SeleL, ESL-1	golgi apparatus protein 1	
Gna13	NM_010306.2	Galpha3	guanine nucleotide binding protein (G protein), alpha inhibiting 3	
Golm4	NM_001291069.1	Golpha4, 3110027H23RIK, P138, GPP130	golgi integral membrane protein 4	
Gpr183	NM_183031.2	Ehb2	G protein-coupled receptor 183	
Gpr65	NM_008152.2	Dlg1, TDAG8, Gprc25	G-protein coupled receptor 65	
Gsn	NM_008175.4	Pgtn, acrogranulin, epithelin, progranulin, PC cell-derived growth factor	granulin	
Gsn	NM_146120.3		gelsolin	
Gtf2h2	NM_022011.4	p44, basal transcription factor 2, p44 subunit, Btf2p44, 44kDa	general transcription factor II H, polypeptide 2	
Gzma	NM_010370.2	Clfa-3, TSP1, H factor, Hf, Clfa3, BLT esterase, SE1, serine esterase 1, Hanukkah factor, TSP-1	granzyme A	
H2-A1	NM_010376.2	Ia1, Ia-1, A alpha, Aa1pha, H-2Aa, H-2Aa, Aa1pha	histocompatibility 2, class II antigen A, alpha	
H2-Ab1	NM_207105.2	Ia-2, Bmcs1, Iab, Abeta1, Abeta, A beta, H-2Ab, Ia2, H2-Ab	histocompatibility 2, class II antigen A, beta 1	
H2-D1	NM_010380.3	H-2D	histocompatibility 2, D region locus 1	
H2-DMa	NM_010386.3	H2-Ma, H2-M alpha, H-2Ma	histocompatibility 2, class II, locus DMa	
H2-DMb1	NM_010387.2	H2-M beta1, H-2Mb1, H2-Mb1	histocompatibility 2, class II, locus Mb1	
H2-DMb2	NM_010388.4	H2-M beta2, H2-Mb2, H2-M beta2	histocompatibility 2, class II, locus Mb2	
H2-Ea-ps	NM_010381.2	H-2Ea, Ia1alpha, Ia-3, Ia3	histocompatibility 2, class II antigen E-alpha, pseudogene	
H2-Eb1	NM_010382.2	Ia4, H-2Eb, Ia-4	histocompatibility 2, class II antigen E beta	
H2-K1	NM_001001892.2	H-2K	histocompatibility 2, K1, K region	
H2-M3	NM_013819.2	H-2M3, Hmt, R4B2	histocompatibility 2, M region locus 3	
H2-Ob	NM_010389.3	A-beta2, H-2i, A-beta-2, H2-iAB2, H-2OB, H2-Ab2, Ob, H2-Ab	histocompatibility 2, O region beta locus	
H2-Q1	NM_010390.3	Q1a, Q1a, Q1b, Q1, H-2Q1	histocompatibility 2, Q region locus 1	
H2-Q10	NM_010391.4	Q10, Qa10, H-2Q10	histocompatibility 2, Q region locus 10	H2-T23 (NM_010399)
H2-Q2	NM_010392.2	H-2Q2, Gm11332	histocompatibility 2, Q region locus 2	
H2-T23	NM_010398.3	T23d, H-2T23, T23b, Qed-1, 37b, T18c(37), Qa1, Qa-1, 37c, T18c	histocompatibility 2, T region locus 23	
Havr1	NM_134248.2	Tim1, KIM-1, TIM-1	hepatitis A virus cellular receptor 1	
Havcr2	NM_134250.2	Timds, Tim3, TIM-3	hepatitis A virus cellular receptor 2	
Hbegf	NM_010015.1	Dtr, Hb18GF, Hbegf	heparin-binding EGF-like growth factor	
Hc	NM_010406.1	C5a, He, C5	hemolytic complement	
Hdac5	NM_010412.3	mHDA1	histone deacetylase 5	
Hdac6	NM_010413.3	mHDA2, Stc6	histone deacetylase 6	
Hdc	NM_008230.4	Hdc-c, L-histidine decarboxylase, Hdcs, Hdc-c, Hdc-a	histidine decarboxylase	
Hes1	NM_008235.2	Hvy, bHLHb39	hairly and enhancer of split 1 (Drosophila)	
Hgf	NM_010427.5	SH/FGF, HK2, NK1, scatter factor, C230052L06RIK, HGF/SF	hepatocyte growth factor	
Hif1a	NM_010431.2	HIF1a1pha, MOP1, bHLH678, HIF-1a1pha	hypoxia inducible factor 1, alpha subunit	
Hip1r	NM_145070.2		huntingtin interacting protein 1 related	
Hist1h1c	NM_015786.3	O610008C09RIK, H1var1, H1c, H1f2, H1.2	histone cluster 1, H1c	Hist2h2ac (NM_175662), Hist2h2aa2 (NM_178212)
Hist2h2aa1	NM_013949.2	Hist2, H2a-615	histone cluster 2, H2aa1	
Hivep1	NM_007772.2	Cybbp1, alphaA-CYBP1	human interferon-gamma virus type I enhancer binding protein 1	
Hmgb1	NM_010439.3	amphoterin, HMGB-1, p30, SBP-1, DEF, Hmg1	high mobility group box 1	
Hnf1b	NM_009330.2	hepatocyte nuclear factor-1 beta, Hnf1beta, Tcf-2, vHNF1, HNF-1beta, Tcf2, LF83	HNF1 homeobox B	
Hoxd4	NM_010469.2	Hox-4.2, Hox-5.1	homeobox D4	
Hpgd	NM_008278.2	15-PGDH	hydroxyprostaglandin dehydrogenase 15 (NAD)	
Hpgds1	NM_019455.4	H-PGD5, Pgd5d2	hematopoietic prostaglandin D synthase	
Hras	NM_0130443.1	H-ras, c-Ha-ras, Harvey-ras, Hras-1, Hras1, ras, Ha-ras, c-rasHa	Harvey rat sarcoma virus oncogene	
Hspg2	NM_008305.3	per, Pic, Pcn	perlecan (heparan sulfate proteoglycan) 2	
Icam1	NM_010493.2	MALA-2, Icam-1, CD54, Ly-47	intercellular adhesion molecule 1	
Icos	NM_017480.1		inducible T cell co-stimulator	
Icosl	NM_015790.3	B7h, B7RP-1, ICOS-L, GL50, LICOS, B7-H2, GL50-B	ICOS ligand	
Id1	NM_010495.2	Idb1, bHLHb24, CDW204b0e	inhibitor of DNA binding 1	
Id2	NM_010496.3	inhibitor of differentiation 2, Id2, bHLH26, C78922	inhibitor of DNA binding 2	
Id3	NM_008321.2	HLH462, bHLHb25, Idb3	inhibitor of DNA binding 3	
Ido1	NM_008324.1	Indo, Id0	indoleamine 2,3-dioxygenase 1	
Ido2	NM_145949.2	Indo1L, C230043N17RIK, ido2	indoleamine 2,3-dioxygenase 2	
Ier3	NM_133662.2	gly9e, c1-5, cAMP inducible gene 3, IEX-1	immediate early response protein 3	
Ifi1b1	NM_01103065.1	Gm13446	interferon-induced protein with tetratricopeptide repeats 1B like 1	
Ifi1b2	NM_053217.2	Z01002M12RIK	interferon-induced protein with tetratricopeptide repeats 1B like 2	
Ifna1	NM_010502.2	Ifa1	interferon alpha 1	Ifna12 (NM_177361), Ifna7 (NM_008334), Ifna11 (NM_008333)
Ifnar1	NM_010508.1	Ifrc, Ifar, IFN-alpha/betaR	interferon (alpha and beta) receptor 1	
Ifnar2	NM_00110498.1	Ifnar-2	interferon (alpha and beta) receptor 2	
Ifnb1	NM_010510.1	interferon beta 1, fibroblast, IFN-beta, IFNB, Ifb	interferon beta 1, fibroblast	
Ifng	NM_008337.1	IFNgamma, Ifg	interferon gamma	
Ifngr1	NM_010511.2	Nktar, IFN-gamma R, IFgr, CD119, IFN-gammaR, Ifngr	interferon gamma receptor 1	
Igf1	NM_00111274.1	Igf-1, C730016P09RIK, Igf-I	insulin-like growth factor 1	
Igf2	NM_010514.3	M6pr, Igf-II, Igf-2, Mpr, Peg2	insulin-like growth factor 2	
Ikkbe	NM_019777.3	IKK-epsilon, IKKepsilon	inhibitor of kappaB kinase epsilon	
Ikzf1	NM_009782.2	Ikaros, Zfp111, Lf-1, 583243G11RIK	Ikaros family zinc finger 1	
Il10	NM_010548.1	cytokine synthesis inhibitory factor, IL-10	interleukin 10	
Il10ra	NM_008348.2	mIL-10R, CDw210, Il10r	interleukin 10 receptor, alpha	
Il12a	NM_008351.1	IL-12p35, p35	interleukin 12a	
Il12b	NM_001303244.1	IL-12p40, IL-12 p40, IL-12b, IL-23 subunit p40	interleukin 12b	
Il13	NM_008355.2	IL-13	interleukin 13	
Il15	NM_008357.2		interleukin 15	
Il15ra	NM_008358.2		interleukin 15 receptor, alpha chain	
Il17a	NM_008359.1	VDw217, Il17r	interleukin 17 receptor A	
Il18	NM_008360.1	Igf1, Il-18	interleukin 18	
Il18r1	NM_0116184.1	Il18ra1pha, Il18rp	interleukin 18 receptor 1	
Il2	NM_010554.4	IL-2	interleukin 2	
Il21	NM_008361.3	IL-2beta, IL-1B	interleukin 2 beta	
Il21r	NM_001123882.1	IL-1 receptor alpha chain, IL-1R, IL1-R1, IL1R1, CD121a	interleukin 1 receptor, type I	
Il2r2	NM_010555.4	IL-1 receptor beta chain, CD121b, Il2r-2	interleukin 1 receptor, type II	
Il3rap	NM_134103.2	IL-3RACp, 6430709H04RIK, IL-3R ACP	interleukin 1 receptor accessory protein	
Il1r1	NM_00102540.2	ST2L, DERA, T1, Fr-1, ST2, T1/ST2, S12, S12-rs1, Ly84, T1 gene	interleukin 1 receptor-like 1	
Il1rn	NM_010567.5	F630041P17RIK, IL-1ra	interleukin 1 receptor antagonist	
Il2	NM_008366.3	IL-2	interleukin 2	
Il21r	NM_021887.1	IL2R	interleukin 21 receptor	
Il22	NM_016971.1	IL-TIF, Il2f, IL-22	interleukin 22	Il2f (NM_054079)
Il23a	NM_0131252.1	IL-23, p19, IL-23p19	interleukin 23, alpha subunit p19	
Il25	NM_007029.2	IL-17E, IL17E	interleukin 25	
Il27	NM_145636.1	p28, IL-27p28, Il30, IL-27	interleukin 27	
Il27ra	NM_016671.3	TCCR, IL-27R, WSX-1	interleukin 27 receptor, alpha	
Il3	NM_010556.4	HCGF, Csfmu, IL-3, BPA, MCGF, PSF	interleukin 3	
Il33	NM_133775.1	9230117N10RIK, IL-33, Il1f11, NF-HEV	interleukin 33	
Il3ra	NM_008369.1	CD123, IL-3 receptor alpha chain, SUF-1	interleukin 3 receptor, alpha chain	
Il4	NM_011183.1	IL-4	interleukin 4	
Il4i1	NM_010215.3	Fig1, Fig1-ps	interleukin 4 induced 1	Gm21948 (NM_00111024)
Il4ra	NM_001008700.3	Il4r, CD124, IL-4 receptor alpha chain	interleukin 4 receptor, alpha	
Il5	NM_010558.1	IL-5	interleukin 5	
Il5ra	NM_008370.2	CDw125, CD125, Il5r, IL-5 receptor alpha chain	interleukin 5 receptor, alpha	
Il6	NM_011658.1	IL-6	interleukin 6	
Il6ra	NM_010559.2	IL-6R, Il6r, IL-6 receptor alpha chain, CD126	interleukin 6 receptor, alpha	

Il9	NM_008373.1	il-9, P40	interleukin 9
Insig1	NM_153526.5	1810013C12RIK, Insig-1	insulin induced gene 1
Insr	NM_010568.2	CD220, IR-B, IR-A, D630014A15RIK, IR, 4932499J01RIK	insulin receptor
Irf1	NM_008900.1	Irf-1	interferon regulatory factor 1
Irf2	NM_008391.2	Irf-2, 9830146E22RIK	interferon regulatory factor 2
Irf3	NM_016849.4	Irf-3, C920001K05RIK	interferon regulatory factor 3
Irf4	NM_013674.1	Spip, Irf-4	interferon regulatory factor 4
Irf5	NM_001252382.1	mir5	interferon regulatory factor 5
Irf7	NM_016850.2		interferon regulatory factor 7
Irf8	NM_008320.3	MyIs, Icbp1, Irf-8, ICSBP	interferon regulatory factor 8
Isg15	NM_015783.3	Glp2	ISG15 ubiquitin-like modifier
ItgA4	NM_010576.3	VLA-4 receptor, alpha 4 subunit	integrin alpha 4
ItgA5	NM_001314041.1	FnrA, Cd49e	integrin alpha 5 (fibronectin receptor alpha)
ItgAl	NM_008400.2	LFA-1, Ly-21, Ly-15, Cd11a	integrin alpha L
ItgAm	NM_001082960.1	alpha, CD11b (p170), Mac-1, F330045J24RIK, Mac-1 alpha, CD11b/CD18	Integrin alpha M
ItgAx	NM_021334.2	CD11c (p150) alpha polypeptide, Cd11c	Integrin alpha X
ItgB1	NM_010578.1	FnrB, beta1 integrin, CD29, 4633401G24RIK, Gm9863	Integrin beta 1 (fibronectin receptor beta)
ItgB2	NM_008404.4	Mac-1 beta, Cd18, 2E6	Integrin beta 2
ItgB7	NM_013566.2		Integrin beta 7
Jak1	NM_013822.2	ABE2, Serrate-1, Htu, Ozz, Headturner, Gsfabe2	Jagged 1
Jak3	NM_010589.5		Janus kinase 3
Jun	NM_010591.2	Junc, c-jun	jun proto-oncogene
Kalrn	NM_17357.3	E530005C2ORIK, Z210407G14RIK, Hapip, LOC224126	kallirin, RhoGEF kinase
KcnaB1	NM_010597.3	Kvbeta1.1, mkv(beta)1, Akv88	potassium voltage-gated channel, shaker-related subfamily, beta member 1
Kif10a1	NM_001461.5	Kif10a1-96, L1E, Tss88	KCNQ3 overlapping transcript1
Kif20a	NM_009044.3	Rabkinesin-6, Rabkif1	kinesin family member 20A
Kit	NM_001122733.1	CD117, Steel Factor Receptor, Gfsfco1	kit oncogene
Kitl	NM_013598.1	blz, Mgf, SLF, Steel, grizzle-belly, SF, Steel factor, Kitl, stem cell factor, Sl, Gb	kit ligand
Klf10	NM_010592.2	mgf, Tieg1, Gdnfif, Egral	Kruppel-like factor 10
Klf4	NM_010637.3	E2f, Gaf, Zie	Kruppel-like factor 4 (gut)
Klk1	NM_010639.7	O610070D4RIK, mGk-6, Klk6	kallikrein 1
Klrl1	NM_001083322.1	NG2-D, Nkg2d, D6H1252489E	killer cell lectin-like receptor subfamily K, member 1
Krab1	NM_133922.3	A930040G15RIK	KRAB-A domain containing 1
Lag3	NM_008479.1	CD223, Ly6e, LAG-3	lymphocyte-activation gene 3
Lamb2	NM_008883.3	ngh, Lamb-2, Lams	laminin, beta 2
Lamb3	NM_008484.2	nccn, 12Skda	laminin, beta 3
Lamp3	NM_17356.3	CD208, 1200002D17RIK, DC-LAMP, TSC403	lysosomal-associated membrane protein 3
Laptn5	NM_010686.3	E3	lysosomal-associated protein transmembrane 5
Lat	NM_010689.2		linker for activation of T cells
Lat2	NM_020044.2	Wbscr15, Wbscr5	linker for activation of T cells family, member 2
Ldlr	NM_010700.2		low density lipoprotein receptor
Lgals3	NM_001145953.1	gal3, Mac-2, galectin-3, L-34	lectin, galactose binding, soluble 3
Lif	NM_008501.2		leukemia inhibitory factor
Lipa	NM_021460.3	Lal, Lip1, Lip-1	lysosomal acid lipase A
Lipo2	NM_033325.2	111000406RIK, 9430067E15RIK	lysyl oxidase-like 2
Lpl	NM_00809.2	O 1-4-5	lipoprotein lipase
Lrp5	NM_008513.3	LRP7, LRP3	low density lipoprotein receptor-related protein 5
Lrp6	NM_008514.3	Cd, skax26, skax26	low density lipoprotein receptor-related protein 6
Lst1	NM_010734.2	B144	leukocyte specific transcript 1
Lta	NM_010735.2	L1alpha, lymphotoxin alpha, hlb382, TNF-beta, LT[alpha], LT-alpha, LT, Lta, LT-[alpha], TrnfB, TNF beta,	lymphotoxin A
Lt4b	NM_008517.2		lymphotoxin B4 hydrolase
Ltb	NM_008518.2	LTbeta, p33, Trnf3, lymphotoxin beta, Tnfc	lymphotoxin B
Ltb4r1	NM_008519.2	BLTR, BLT1, mBLTR	leukotriene B4 receptor 1
Ltb4r2	NM_020490.2	BLT2, 5830462007RIK	leukotriene B4 receptor 2
Ly6c1	NM_010741.3	Ly6c, Ly-6C	lymphocyte antigen 6 complex, locus C1
Ly6g	XM_909927.2	Gr1, Ly-6G, Gr-1	lymphocyte antigen 6 complex, locus G
Maab	NM_010658.2	Krml, Krml1, Kreisler	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)
Maff	NM_010755.3		v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)
Map1B	NM_172833.2	Pcasp1, paracaspase, D43003E09RIK	MAIT1 paracaspase
Man2b1	NM_010744.2		mannosidase 2, alpha B1
Map2k1	NM_008927.3	Mek1, Prkml1, MAP kinase kinase 1	mitogen-activated protein kinase kinase 1
Map2k2	NM_023138.4	Prkm2, MAP kinase/Erk kinase, MEK2	mitogen-activated protein kinase kinase 2
Map2k3	NM_008928.4	Prkm3, MAP kinase kinase 3, MKK3	mitogen-activated protein kinase kinase 3
Map2k4	NM_009157.4	MKK4, Serk1, Serk1, JNKK1	mitogen-activated protein kinase kinase 4
Map3k4	NM_016896.3	NK	mitogen-activated protein kinase kinase 14
Map3k4	NM_011948.2	Nk, Mek4a, MAPKK4, D178p17, MTK1, RP17, D178p17e	mitogen-activated protein kinase kinase 4
Mapk11	NM_011161.5	Prkm11, Sapk2, P38b, p38beta	mitogen-activated protein kinase 11
Mapk12	NM_013871.3	Prkm12, P38gamma, Erk6, Sapk3	mitogen-activated protein kinase 12
Mapk13	NM_011950.1	p38 delta MAP kinase, Serk4, SAPK4	mitogen-activated protein kinase 13
Mapk14	NM_011951.2	p38a, p38 MAP kinase alpha, p38, p38MAPK, Crk1, CSBP2, p38 alpha, p38 MAPK, Mw2,	mitogen-activated protein kinase 14
Mapk3l1	NM_010807.4	p38beta, p38 MAP kinase, p38-alpha, Csbp1	MARCKS-like 1
Marco	NM_010766.2	Macc3, D48c1, MacMARCKS, Macc2, Maccs-2, Maccs, Mip, Mrp, F52	macrophage receptor with collagenous structure
Mcm5	NM_008566.2	Mcmd5, mCD46, Cdc46	minichromosome maintenance complex component 5
Mertk	NM_008587.1	Eyk, Tyro 12, nmf12, Mer, Nyk	c-mer proto-oncogene tyrosine kinase
Met	NM_008591.1	Par4, HGF receptor, c-Met	met proto-oncogene
Mif	NM_010798.2	Gif	macrophage migration inhibitory factor
Mmp10	NM_019471.2	stromelysin 2	matrix metalloproteinase 10
Mmp12	NM_008605.3	Mme1, macrophage elastase, MMP12	matrix metalloproteinase 12
Mmp13	NM_008607.1	Ctg, Mmp1, collagenase-1, interstitial collagenase, Collagenase-3, MMP-13	matrix metalloproteinase 13
Mmp19	NM_021412.2		matrix metalloproteinase 19
Mmp1a	NM_023006.3	Mcol-A	matrix metalloproteinase 1a (interstitial collagenase)
Mmp8	NM_008611.4	Collagenase-2	matrix metalloproteinase 8
Mmp9	NM_013599.2	B/MMP9, MMP-9, Gel B, gelatinase B, Clg4b, Gelatinase B	matrix metalloproteinase 9
Mob3c	NM_17308.4	Mobk12c, MOB3C, D130076I06RIK	MOB kinase activator 3C
Mok	NM_011973.2	Sk30, Rage, MAPK/MAPK/RRK/ overlapping kinase, MOK	MOK protein kinase
Mpeg1	NM_010821.1	MP51, Mpg-1	macrophage expressed gene 1
Mpo	NM_010824.2		myeloperoxidase
Mrc1	NM_008625.1	MR, CD206	mannose receptor, C type 1
Mrc2	NM_008626.3	uPARAP, novel lectin, Endo180	mannose receptor, C type 2
Msd4a1	NM_007641.5	CD20, Ly-44	membrane-spanning 4-domains, subfamily A, member 1
Msd4a2	NM_00127630.1	FCRB, Fcer1b, Fcer1b, Fcrtbeta	membrane-spanning 4-domains, subfamily A, member 2
Msc	NM_010827.2	MyoR, bHLH22	musculin
Msh2	NM_008628.2		mutS homolog 2 (E. coli)
Mx1	NM_010846.1	myxovirus (influenza) resistance 1 polypeptide, Mx, Mx-1	MX dynamin-like GTPase 1
Mx2	NM_013606.1	Mx-2	MX dynamin-like GTPase 2
Myc	NM_010849.4	Myc2, Nird, c-myc, bHLHe39, Niard	myelocytomatosis oncogene
Myd88	NM_010851.2		myeloid differentiation primary response gene 88
Myh4	NM_010855.2	MyHC-1b, MYH2B, MM, Minmus, MYH-2B, Mininus, Myhsf	myosin, heavy polypeptide 4, skeletal muscle
MyoD1	NM_010866.2	bHLHc1, MyoD, Myod-1, MYF3	myogenic differentiation 1
Nampt	NM_021524.1	1110035O14RIK, Vsfat1n, Pbe1f	nicotinamide phosphoribosyltransferase
Ncf2	NM_010877.4	NOXA2, Ncf-2, NADPH oxidase subunit (67kDa), p67phox	neutrophil cytosolic factor 2
Ncor1	NM_011308.2	Rxivp13, 5730405M06RIK, N-CoR, A230020K14RIK	nuclear receptor co-repressor 1
Ndc80	NM_023294.2	NDC80D209I38RIK, Kinc2, HEC1	NDC80 homolog, kinetochore complex component (S. cerevisiae)
Ndufa7	NM_023202.2	NADH oxidoreductase, 14.5kDa, 2400007M02RIK	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 7 (B14.5a)
Nectin1	NM_021424.2	CD111, HlgR, HveC, nectin-1, PRR, PRR1, Pvr1l	nectin cell adhesion molecule 1
Nectin2	NM_001159724.1	CD112, MPH, nectin-2, Pvr2, Pvs	nectin cell adhesion molecule 2
Nfatc1	NM_016791.4	Z210017P03RIK, NF-ATc, NFAT2, NFATc	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 1
Nfatc2	NM_001037177.1	NFAT1-D, NFATf, NFAT1	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2
Nfya	NM_011737.3	EGR1	nuclear factor, interleukin 3, regulated
Nfya1	NM_008689.2	p50/p105, NF-kappaB, p50 subunit of NF kappaB, NF-kappaB p50, NF kappaB1, nuclear factor	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105
Nfya2	NM_010907.2	Nfkb1, (Kappa)B(alpha), IkkappaBalpha, I-kappaBalpha	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha
Nfya3	NM_008690.3		nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, epsilon
Nfya4	NM_001048168.2	Mail	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, zeta
Nfy	NM_001048168.2		nuclear transcription factor-gamma
Ngf	NM_00112698.1	Ngfb	nerve growth factor
Nkg7	NM_024253.4	2500004F03RIK	natural killer cell group 7 sequence
Nlrp3	NM_145827.3	cryopyrin, Pyppaf1, Mmig1, Clas1, NALP3	NLR family, pyrin domain containing 3
Nlrp6	NM_026523.2	3110023K12RIK	neuromedin B
Nod1	NM_172729.2	F830079I14RIK, Nirc1, Card4	nucleotide-binding oligomerization domain containing 1
Nod2	NM_145857.2	Nirc2, Card15, F830032C23RIK	nucleotide-binding oligomerization domain containing 2
Nos2	NM_010927.3	NOS-II, iNOS, Nos-2, Nos2a	nitric oxide synthase 2, inducible
Nox1	NM_172203.1	Nox-1, GP91 phox homolog	NADPH oxidase 1
Nox3	NM_198958.2	het, nmfZ50	NADPH oxidase 3
Nox4	NM_015760.4		NADPH oxidase 4
Nr1h3	NM_001177201.1	Uer1, LXR alpha	nuclear receptor subfamily 1, group H, member 3
Nr2f6	NM_010150.2	COUP-TF3, Eralb2, EAR2	nuclear receptor subfamily 2, group F, member 6
Nr4a1	NM_010444.1	N10, Hmr, Gfp, NGR-B, T1S1, Nur77, Hbr1, GFRP1, NP10, Hbr-1, TR3	nuclear receptor subfamily 4, group A, member 1
Nr4a2	NM_001139509.1	Nurr1, HZF-3, RNR-1	nuclear receptor subfamily 4, group A, member 2
Nr3p	NM_020610.1	A330103B05RIK, ICRFP703B1614Q5.2, D7H11orf14, ICRFP703N243Q05.2	nuclear receptor interacting protein 3
Ori1	NM_00101094.1	LCK-1, SR-E1, Scar1e1	oxidized low density lipoprotein (lectin-like) receptor 1
Oscar	NM_175632.3	mOSCAR	osteoclast associated receptor

Ly6a
(NM_001271419;NM_010738;NM_001271446;NM_001271417;NM_001271418;NM_001271416)

Osm	NM_001013365.2	OncM	oncostatin M
P2rx1	NM_008771.3	RP-2, P2X1 receptor, P2x, P2cd3	purinergic receptor P2X, ligand-gated ion channel, 1
Pbx1	NM_008783.2	Pbx-1, D230003C07Rik, Pbx1a, 2310056804Rik, Pbx1b	pre B cell leukemia homeobox 1
Pbx3	NM_016168.1		pre B cell leukemia homeobox 3
Pdcd1	NM_008798.1	PD-1, Pdc1	programmed cell death 1
Pdcd1lg2	NM_021396.2	Btdc, B7-DC, F730015O22Rik, PD-L2	programmed cell death 1 ligand 2
Pde4a	NM_183408.3	dunce, D9Erd60e, Dpde2	phosphodiesterase 4A, cAMP specific
Pdgrf	NM_008808.3		platelet derived growth factor, alpha
Pdgrf	NM_011857.3	Slc, PDGF-B	platelet derived growth factor, beta polypeptide
Pdgrfa	NM_00108316.3	Pdgrf-2, CD140a	platelet derived growth factor receptor, alpha polypeptide
Pdgrfb	NM_008809.1	CD140b, Pdgrf	platelet derived growth factor receptor, beta polypeptide
Pdk3ip1	NM_00164557.1	O610007F13Rik, Z700030M23Rik, Map17	PDZX1 interacting protein 1
Pel1	NM_023324.2	A930031K15Rik, Z810468L03Rik, D11Erd676e	pellino 1
Pf4	NM_019932.4	Cxcl4, Sycb4, Pf4	platelet factor 4
Pf6e	NM_00185182.1	H-2K2, h-2, H2-ke2	prefolin subunit 6
Pggt1b	NM_172627.3	BGG1, Z010207C17Rik, GGT1	protein geranylgeranyltransferase type I, beta subunit
Pglyr1	NM_009402.2	Tag7, PGRP-S, Tag7, peptidoglycan recognition protein, Tnfsf3l	peptidoglycan recognition protein 1
Phlda2	NM_009434.2	Tssc3, Ipl	pleckstrin homology-like domain, family A, member 2
Pik3cg	NM_020277.2	S830428I06Rik, pi10gamma, Pi(3)Kgamma, PI3Kgamma	phosphoinositide-3-kinase, catalytic, gamma polypeptide
Pim2	NM_138606.2	DXC03, Pim-2	proliferation inducer 2
Piu	NM_008873.2	urokinase-type plasminogen activator, u-PA, uPA	plasminogen activator, urokinase
Piur	NM_011133.3	uPAR, urokinase-type plasminogen activator receptor, u-PA, Cd87	plasminogen activator, urokinase receptor
Pparg	NM_01146.1	PPARgamma2, PPARgamma, PPAR-gamma, Ppar-gamma2, Nr1c3	peroxisome proliferator activated receptor gamma
		Prx1, TXK2, thioredoxin dependent peroxide reductase 2, osteoblast specific factor 3, macrophage stress protein 22kDa, macrophage 23kDa stress protein, Rfpd2, PAg, Prrk, Prrk2, prrk1, OSF-3, MSP23	peroxiredoxin 1
Prdx1	NM_011034.4		peroxiredoxin 3
Prdx3	NM_007452.2	Aopl, SP22, Prx III, D07Ch1, Fzl1, Mev5, TDMX	peroxiredoxin 3
Prg2	NM_008920.4	mMBP, mMBP-1	proteoglycan 2, bone marrow
Prg3	NM_016914.2	major basic protein 2, MBP2	proteoglycan 3
Prkca	NM_011101.3	Pkca	protein kinase C, alpha
Prkci	NM_008857.3	Pkci, Pkci, sPKClambda, PKClambda, 2310021H13Rik, Prkci	protein kinase C, iota
Prkz	NM_001039539.2	PKZ, Bombina variegata 8kDa protein, Bv8	prokinectin 2
Prox1	NM_011173.2	protein S	protein S (alpha)
Prrx1	NM_175686.3	mHox, A230024N07Rik, K-2, Prrx1, mHox, Pmx1	paired related homeobox 1
Psm8	NM_010724.2	Lmp7, Lmp-7	proteasome (prosome, macropain) subunit, beta type 8 [large multifunctional peptidase 7]
Psm9	NM_013585.2	Lmp2, Lmp-2	proteasome (prosome, macropain) subunit, beta type 9 [large multifunctional peptidase 2]
Psme2	NM_001029855.1	PA28b	proteasome (prosome, macropain) activator subunit 2 (PA28 beta)
Ptatr	NM_001081211.1	PAF receptor, PAFR	platelet-activating factor receptor
Ptgd	NM_008962.4	DP	prostaglandin D receptor
Ptger2	NM_009962.2	PGD2 receptor, Crth2, Gpr44	prostaglandin D2 receptor 2
Ptgs	NM_008963.2	Ptgs1, PGD2, LPSGD	prostaglandin D2 synthase (brain)
Ptger2	NM_008964.4	EP2 receptor, EP2, Ptgerrep2	prostaglandin E receptor 2 (subtype EP2)
Ptgs1	NM_008969.3	COX1, cyclooxygenase 1, Cox-1, Pghs1, Cox-3	prostaglandin-endoperoxide synthase 1
		COX2, cyclooxygenase-2, PGHS-2, Cox-2, PHS-2, prostaglandin G/H synthase, Pghs2, Tis10,	prostaglandin-endoperoxide synthase 2
Ptgs2	NM_011198.3	cyclooxygenase 2	prostaglandin-endoperoxide synthase 2
Ptpn14	NM_008976.2	OTTTUSG0000022087, C130080N23Rik, PTP36	protein tyrosine phosphatase, non-receptor type 14
Ptpn7	NM_029928.1	YE-PTP, Z320402H2Rik	protein tyrosine phosphatase, receptor type, B
Ptprc	NM_011210.3	Lyt-4, CD45, B220, Ly-5, T200	B protein tyrosine phosphatase, receptor type, C
Ptpkr	NM_008883.2	PTPK, RPTKappa	C protein tyrosine phosphatase, receptor type, K
Ptx3	NM_008987.3	TSG-14, pentraxin 3	pentraxin related gene
Pycard	NM_023258.4	Asc, 9130417A21Rik, TMS-1	PYD and CARD domain containing
Rab20	NM_011277.1	RASERD50e	RAB20, member RAS oncogene family
Rab3d	NM_031874.4	C130057E11Rik	RAB3D, member RAS oncogene family
Rads1	NM_011234.4	Rads1a, Rca	RADS1 homolog
Raf1	NM_029780.3	c-Raf, 6430402F14Rik, Raf-1, v-Raf, sarcoma 3611 oncogene, Craf1	v-raf-leukemia viral oncogene 1
Ragef4	NM_019688.2	1300030D15Rik, S730402X07Rik, cAMP-GEFII, Epac2, 6330581N18Rik	Rap guanine nucleotide exchange factor (GEF) 4
Rasaf1	NM_013832.4	MRA3AL	RAS protein activator like 1 (RAS-1) like
Rasgrf2	NM_009077.3	Z330417G04Rik, Grt2	RAS protein-specific guanine nucleotide-releasing factor 2
Rbp1	NM_011254.5	Rbp-1, Crbp, CRBP1	retinol binding protein 1, cellular
Retnia	NM_020509.3	1810019L16Rik, RELMA, Fizz1, Fizz-1, HIMF, Xcp2	resistin like alpha
Retnb	NM_023881.4	RELMbeta, Fizz2, Xcp3, 9030012B12Rik, Relmb	resistin like beta
Rgl1	NM_016846.3	Rgl	ral guanine nucleotide dissociation stimulator, -like 1
Rgs1	NM_015811.1	Rgs1a	regulator of G-protein signaling 1
Rgs16	NM_011267.3	Rgsr	regulator of G-protein signaling 16
Rgs6	NM_015812.3		regulator of G-protein signaling 6
Rhoc	NM_007484.2	Arh9, Arhc	ras homolog gene family, member C
Rhog	NM_019566.3	Arhg, Rhog, Z810426G09Rik, Sid10750	ras homolog gene family, member G
Rhoj	NM_023275.2	TC10, TC1, Arh1, 1110050S19Rik	ras homolog gene family, member J
Rictor	NM_030168.3	RP21505C17Rik, 6030405M08Rik, D530039E11Rik	RPTOR, essential component of mTOR, complex 2
Rin2	NM_028724.4	RASSF4, 4632403N06Rik, 2010003K16Rik	Ras and Rab interactor 2
Ripk2	NM_138952.3	CCK, CARD3, Z210420D18Rik, D48wg015e, RICK, RIP2, CARDIAK	receptor (TNFRSF)-interacting serine-threonine kinase 2
Rnase2a	NM_053113.2	Ear11	ribonuclease, RNase A family, 2A (Iver, eosinophil-derived neurotoxin)
Rnase2b	NM_019398.2	murine ribonuclease 5, Ear5, mRS	ribonuclease, RNase A family, 2B (Iver, eosinophil-derived neurotoxin)
Rns3	NM_028102.2	Arhe, Rhoz, Z610017M01Rik	rho family GTPase 3
Rosl	NM_011282.2	Ros-1, c-ros	Ros1 proto-oncogene
Runx2	NM_009820.5	PEBP2A, AML3, Osf2, SL3-3 enhancer factor 1, Pebp2a, Cbfa1, polyomavirus enhancer binding factor 2 (PEBP2), PEBP2 alpha A	runt related transcription factor 2
S100a10	NM_009112.2	Cal1, 42c, CLP11, CAL12, p10	S100 calcium binding protein A10 (calpactin)
S100a11	NM_016740.3	S100c, cal, calizzarin, S100a14, Emap1	S100 calcium binding protein A11
S100a4	NM_011112.2	caliscalcin, Fsp1, Fsp1, 1882, CAP, Cap1, 42a, metastasin, Pel98, pk9a	S100 calcium binding protein A4
S100a8	NM_013650.2	CFAG, 6088Ag, BSAG, Caga, CP-10, p8, MRP8	S100 calcium binding protein A8 (calgranulin A)
S100a9	NM_009114.2	GAGB, 6088Ag, Cagb, MRP14, BEE22, p14, LLAg	S100 calcium binding protein A9 (calgranulin B)
S1pr1	NM_007901.4	S1P, S1P1, Edg1	sphingosine-1-phosphate receptor 1
Saa1	NM_009117.3	Saa-1	serum amyloid A 1
Scn	NM_009132.2	scd5evrn1	scd5evrn1
Sele	NM_011345.2	CD62E, Elam, E-selectin	selectin, endothelial cell
Sell	NM_001164059.1	Lnh1, Lym1, Lym-1, LECAM-1, CD62L, Ly-22, Ly-m22, L-selectin	selectin, lymphocyte
Selp	NM_011347.1	CD62P, Gmp, P-selectin	selectin, platelet
Splg1	NM_009151.3	Pagl1, Pagl-1, CD162	selectin, platelet (p-selectin) ligand
Sema4a	NM_013658.3	SemB, Semab, SemB	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4A
Sema4b	NM_013659.4	SemC, Semac	sema domain, immunoglobulin domain (Ig), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 4B
Sema5a	NM_009154.2	9130201M22Rik, semf, Sema4f, M-Sema D	sema domain, seven thrombospondin repeats (type 1 and type 1-like), transmembrane domain (TM) and short cytoplasmic domain, (semaphorin) 5A
Sema6d	NM_029402.3	Sema6D-1, Sema6D-5, 111005780Zr1k, Sema6D-4, Sema6D-6, Sema6D-2	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6D
Serpinb2	NM_00117470.1	ovalbumin, Planh2, PAI-2	serine (or cysteine) peptidase inhibitor, clade B, member 2
Serpinb6a	NM_001164117.1	Sp13, D33001SH01Rik, ovalbumin, 4930482L121Rik	serine (or cysteine) peptidase inhibitor, clade B, member 6a
Serpinb7	NM_027548.3	ovalbumin, 4631416M05Rik, megin	serine (or cysteine) peptidase inhibitor, clade B, member 7
Serpinb9	NM_009256.3	ovalbumin, P1-9, Sp6	serine (or cysteine) peptidase inhibitor, clade B, member 9
Serpine1	NM_008871.2	Platn1, PAI-1, PA1	serine (or cysteine) peptidase inhibitor, clade E, member 1
Serpine3	NM_00119945.1	E130113E03Rik	serpin peptidase inhibitor, clade E (nexin, plasminogen activator inhibitor type 1), member 3
Sesn1	NM_001013370.2	SEST1, 1110002G11Rik, PA26	sestrin 1
Sfrp4	NM_016687.2		secreted frizzled-related protein 4
Sgpp1	NM_030750.3	SPP1, SPP, mSPP1	sphingosine-1-phosphate phosphatase 1
Siglec1	NM_011426.3	Siglec-1, Sn, CD169	sialic acid binding Ig-like lectin 1, sialoadhesin
Siglec5	NM_145581.1	mSiglec-F, Siglec5	sialic acid binding Ig-like lectin F
Sirpa	NM_007547.2	P84, Ptpns1, Bit, SIRP, CD172a, SHPS-1	signal-regulatory protein alpha
Ski	NM_011385.2	Z310012I02Rik, Z610001A11Rik	ski sarcoma viral oncogene homolog (avian)
Skil	NM_011386.2	Skir, sno-dE3, SnoN2, SnoN, 9130011J04Rik	SKI-like
Slc16a6	NM_134032.2		solute carrier family 16 (monocarboxylic acid transporters), member 6
Smad1	NM_008539.3	Mad1, Smad1, Madh1	SMAD family member 1
Smad2	NM_010754.4	Mad2, Mad2, Z120426M23Rik, Smad2	SMAD family member 2
Smad7	NM_001042660.1	Madh7	SMAD family member 7
Smard3	NM_025891.3	BAF60C, Z210409C08Rik, 1500001J14Rik	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 3
Socs1	NM_009896.2	Cish7, JAK-binding protein, JAK2-binding protein, SSI-1, STAT-induced STAT inhibitor 1, SOCS-1, JAB, CISH	suppressor of cytokine signaling 1
Socs2	NM_001186855.1	JAB, CIS2, SSI-2, STAT-induced STAT inhibitor 2, SOCS-2, cytokine-inducible SH2 protein 2, Cish2, D130043N08Rik	suppressor of cytokine signaling 2
Socs3	NM_007707.2	CISH3, EF-10, cytokine-inducible SH2 protein 3, E2a-Pbx1 target gene in fibroblasts 10, CIS3, SSI-3, STAT-induced STAT inhibitor 3, SOCS-3	suppressor of cytokine signaling 3
Sp4	NM_005239.2	HF-1b, HF1-b, 57304097N3Rik	trans-acting transcription factor 4
Sphk1	NM_011451.3	SK1, 1110006G24Rik	sphingosine kinase 1
Spry2	NM_011897.3	sprouty2	sprouty homolog 2 (Drosophila)
Spry3	NM_009760.2	beta fodrin, eIF3, brain spectrin, spectrin G, Sprn-2, 9930031C03Rik, eIF1, Sprn2, non-erythrocytic	spectrin beta, non-erythrocytic 1
Sptbn1	NM_009760.2	erythrocytic	spectrin beta, non-erythrocytic 1
Sqtzm1	NM_011018.2	pz3, OSF-6, STAP, Osl, A170	sequestosome 1
Stab1	NM_138672.2	MS-1	stabilin 1
Stat1	NM_009283.3	Z010005I02Rik	signal transducer and activator of transcription 1
Stat3	NM_213659.2	Apr1, 1110034C02Rik	signal transducer and activator of transcription 3
Stat4	NM_011487.4		signal transducer and activator of transcription 4
Stat5a	NM_011488.2	STAT5	signal transducer and activator of transcription 5A
Stat5b	NM_00113563.1		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
Tap1	NM_001161730.1	MTP1, Tap-1, TAP, RING4, Ham-1, PSF-1, Ham1, Abcb2	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
Tap2	NM_011530.3	HAM2, MTP2, PSF2, Abcb2, Ham-2, Ham2, Tap-2	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
Tapbp	NM_009318.2	TPN, tapasin, D17Wsu91e	TAP binding protein
Tek	NM_013690.2	Tie2, Hyk, CD20b, tie-2	endothelial-specific receptor tyrosine kinase
Ter1p	NM_009351.2	Ter1	telomerase associated protein 1
Terf2ip	NM_020584.2	Rap1	telomeric repeat binding factor 2, interacting protein
Tfcp2	NM_033476.2	LBP1, CP2, UBP-1, LSF, D230015P20Rik, LBP-1c, LBP-1d, CP-2, Tfcfp2	transcription factor CP2
Tgfa	NM_031199.2		transforming growth factor alpha
Tgfb1	NM_011577.1	TGFbeta1, Tgfb, TGF-beta 1, Tgfb-1, TGF-beta1	transforming growth factor, beta 1
Tgfr3	NM_011578.3	1110036H20Rik, betaglycan, TBR11	transforming growth factor, beta receptor III
Tgm2	NM_009373.3		transglutaminase 2, C polypeptide
Tlbt	NM_009378.3	CD141, TLM	thrombospondin
Tigit	NM_001146325.1	Vstm3, ENSMUSG00000071552	T cell immunoreceptor with Ig and ITIM domains
Timd4	NM_178759.4	TIM-4, Tim4, B43001N18Rik	T cell immunoglobulin and mucin domain containing 4
Timp3	NM_011595.2	Timp-3	tissue inhibitor of metalloproteinase 3
Tlr1	NM_030682.1		tol-like receptor 1
Tlr11	NM_205819.2	LOC230081	tol-like receptor 11
Tlr12	NM_205823.2	Tlr11, LOC384059	tol-like receptor 12
Tlr13	NM_205820.1	LOC279572	tol-like receptor 13
Tlr2	NM_011905.2	Ly105	tol-like receptor 2
Tlr3	NM_126166.2		tol-like receptor 3
Tlr4	NM_021297.2	Ras12-8, Lps, lipopolysaccharide response	tol-like receptor 4
Tlr5	NM_010268.2		tol-like receptor 5
Tlr6	NM_011604.3		tol-like receptor 6
Tlr7	NM_133211.3		tol-like receptor 7
Tlr8	NM_133212.2		tol-like receptor 8
Tlr9	NM_031178.2		tol-like receptor 9
Tm7sf3	NM_026281.2	20100038140Rik	transmembrane 7 superfamily member 3
Tmem173	NM_028261.1	ERIS, Stmg, MFP5, 2610307008Rik	transmembrane protein 173
Tnc	NM_011607.1	TN-C, cytotactin, tenascin-C, Hxb, C130033P17Rik, hexabrachion, TN	tenascin C
Tnf	NM_013693.2	TNFalpha, Tnfa, TNF-alpha, Tnfs1a, tumor necrosis factor-alpha, DIF, TNF alpha	tumor necrosis factor
Tnfrsf3	NM_009397.2	A20, zinc finger protein A20, Tnfrp3	tumor necrosis factor, alpha-induced protein 3
Tnfrsf6	NM_009398.2	Tgfb, Tnfrp6, TSG-6	tumor necrosis factor alpha induced protein 6
Tnfrsf8	NM_134111.2	E13304C20Rik, Gg2-1, Ssc-2, Nded, Gm10539	tumor necrosis factor, alpha-induced protein 8
Tnfrsf11a	NM_009399.3	TRANCE-R, Rank	tumor necrosis factor receptor superfamily, member 11a, NFKB activator
Tnfrsf12a	NM_001161746.1	TWEAK-R, TweakR, Fm14	tumor necrosis factor receptor superfamily, member 12a
Tnfrsf14	NM_178931.2	HveA, Atar, Hvem	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)
Tnfrsf1a	NM_011609.2	CD120a, TNF receptor alpha chain, TNFRp55, p55, TNF-R55, TNFalpha-R1, TNF-R4, TNFR60, TNFAR, p55-R, TNF-alpha-R1, TNF-R1, TNF-alpha-R1, TNFR1, TNF1	tumor necrosis factor receptor superfamily, member 1a
Tnfrsf1b	NM_011610.3	Tnfr2, p75, TNFR, TNF-alphaR2, CD120b, TNF-R2, TNFRB, TNF-R4, TNF-R75, TNFR1, TNFalpha-	tumor necrosis factor receptor superfamily, member 1b
Tnfrsf4	NM_011659.2	Ov40, ACT35, CD134, Txgp1	tumor necrosis factor receptor superfamily, member 4
Tnfrsf8	NM_009401.2	CD30	tumor necrosis factor receptor superfamily, member 8
Tnfrsf9	NM_001077508.1	ILA, Cdw137, 4-1BB, Cd137, A93004011Rik, Ly63	tumor necrosis factor receptor superfamily, member 9
Tnfrsf10	NM_009425.2	APD-2L, A33040421Rik, Trail	tumor necrosis factor (ligand) superfamily, member 10
Tnfrsf4	NM_009452.2	Ngpl1, Abt-1, Abt1, OX40L, CD134L, gp34, TXGP1	tumor necrosis factor (ligand) superfamily, member 4
Tnfrsf9	NM_009404.3	4-1BB-L, 4-1BB ligand, Ly63L, Cd137L, 4-1BBL	tumor necrosis factor (ligand) superfamily, member 9
Top2a	NM_011623.2	Top-2, DNA Topoisomerase II alpha	topoisomerase (DNA) II alpha
Tpsb2	NM_010781.3	M MCP-6, Mcp-6, Mcp6, Mcp6	tryptase beta 2
Traf1	NM_009421.3	4732496E14Rik	TNF receptor-associated factor 1
Traf2	NM_009422.2		TNF receptor-associated factor 2
Traf6	NM_009424.2	2310003f17Rik, C630032O20Rik	TNF receptor-associated factor 6
Traf1	NM_172275.2	Fin29, 111000806Rik	TRAF type zinc finger domain containing 1
Trem1	NM_021406.5		triggering receptor expressed on myeloid cells 1
Trem2	NM_031254.2	Trem2b, Trem2c, Trem2a	triggering receptor expressed on myeloid cells 2
Trex4	NM_011637.6		three prime repair exonuclease 1
Tnfrsf9	NM_001110202.1	C030048G07Rik	triplicate motif-containing 9
Tspan7	NM_0119634.2	Tm4sf2, 1200014P11Rik, A15, PE31, Cd231, TALLA	tetraspanin 7
Tspan8	NM_001168680.1	Tm4sf3, E330007O21Rik	tetraspanin 8
Ttk	NM_009445.2	Mps1, Esk1	Ttk protein kinase
Tuba1a	NM_011653.2	Tuba-1, Tgpha1 alpha-tubulin, Tuba1	tubulin, alpha 1A
Tuba4a	NM_009447.3	Tubata, Mt4a	tubulin, alpha 4A
Twistnb	NM_172253.2	281002417Rik, D16Wsu83e	twist basic helix-loop-helix transcription factor 1 neighbor
Txn1	NM_011660.3	Trx1	thioredoxin 1
Tyndc16	NM_172597.2	5730420B22Rik	thioredoxin domain containing 16
Tyrbp	NM_011662.2	KARAP, DAP12, killer cell activating receptor associated protein	TYRO protein tyrosine kinase binding protein
Usp18	NM_009409.2	UBP43, 1110058H21Rik	ubiquitin specific peptidase 18
Vamp2	NM_009497.3	Syb-2, synaptobrevin II, sybl1, Syb2, synaptobrevin-2	vesicle-associated membrane protein 2
Vasp	NM_009499.2		vasodilator-stimulated phosphoprotein
Vav1	NM_011691.4		vav 1 oncogene
Vav2	NM_009500.1	Z810040F13Rik	vav 2 oncogene
Vcam1	NM_011693.2	CD106, Vcam-1	vascular cell adhesion molecule 1
Vegfa	NM_001032503.3	Vegf, VEGF120, VEGF188, VEGF-A, VPF, VEGF164	vascular endothelial growth factor A
Vegfc	NM_009506.2	VEGF-C	vascular endothelial growth factor C
Vrk2	NM_00125447.1	2810003005Rik	vaccinia related kinase 2
Vsir	NM_001159572.1	Dies1, PD-1H, 4632428N05Rik, VISTA	V-set immunoregulatory receptor
Vtcn1	NM_178594.3	B7x, B7-4	V-set domain containing T cell activation inhibitor 1
Vwa5a	NM_172767.3	Loh11c7a, 5830475106Rik, BCSC-1	von Willebrand factor A domain containing 5A
Was	NM_009515.2	U42471, Wasp	Wiskott-Aldrich syndrome homolog (human)
Xcr1	NM_011798.4	Cxcr1, C motif-1/lymphotactin receptor, XCR1, GPRS	chemokine (C motif) receptor 1
Yap1	NM_009534.3	yorkie, Yki, Yap	yes-associated protein 1
Yes1	NM_001205132.1	Yes	YES proto-oncogene 1, Src family tyrosine kinase
Zfp148	NM_011749.4	BERF-1, BFCOL1, ZBP-89, 2210405J08Rik, beta enolase repressor factor 1	zinc finger protein 148
Zfp92	NM_009566.4		zinc finger protein 92
Zmpste24	NM_172700.2	A530043O15Rik	zinc metalloproteinase, STE24
Zrf2	NM_199143.2	D6ért365e, 1190002C14Rik	zinc and ring finger 2
Internal Reference Genes			
Abcd1	NM_013854.1	GCN20, D17Wsu166e, Abc50	ATP-binding cassette, sub-family F (GCN20), member 1
Alas1	NM_020559.2	Alas-1, ALAS-N, succinyl-CoA: glycine C-succinyl transferase, 5-aminolevulinic synthase	aminolevulinic acid synthase 1
Edc3	NM_153799.3	Lsm16, Ydc	enhancer of mRNA decapping 3
Eef1g	NM_026007.4	EF1G, 2610031D06Rik	eukaryotic translation elongation factor 2 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	Gut, Gus-a, asd, g, adipose storage deficiency, Gus-r, Gus, Gus-u, Gur, Gus-t	glucuronidase, beta
Hdcac3	NM_010411.2		histone deacetylase 3
Hprt1	NM_013556.2	Hprt1	hypoxanthine guanine phosphoribosyl transferase
Nubp1	NM_011955.2		nucleotide binding protein 1
Oaz1	NM_008753.4	Antizyme, AZ-1, AZ1, antizyme 1	ornithine decarboxylase antizyme 1
Poir1a	NM_009086.2	RPA116, RPA2, Rpo1-2, 1288Da, D630020H17Rik	polymerase (RNA) I polypeptide B
Poir2a	NM_001291068.1	Rpo2-1, 220kDa	polymerase (RNA) I (DNA directed) polypeptide A
Ppia	NM_008077.1	Cphn, Cyp-18, cyclophilin A, CypA	peptidylprolyl isomerase A
Rpl19	NM_009078.2		ribosomal protein L19
Sap130	NM_172965.2	2610304F09Rik	Sin3A associated protein
Sdh	NM_023281.1	SDH2, 2310034D06Rik, FP, SDHF	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
Sf3a3	NM_029157.3	4930512K19Rik, 60kDa	splicing factor 3a, subunit 3
Tbp	NM_013684.3	Gtf2b	TATA box binding protein
Tubb5	NM_011655.4	B130022C14Rik	tubulin, beta 5 class I