

Official Symbol	Accession	Alias / Previous Symbol	Official Full Name
4930578C19Rik	NM_175228.4	4930578C19Rik,RIKEN cDNA 4930578C19	RIKEN cDNA 4930578C19 gene
A2m	NM_175628.3	A2m,A2mp,alpha-2-macroglobulin	alpha-2-macroglobulin
Acvr1c	NM_001033369.3	activin A receptor, type IC,Acvr1c,Alk-7,	activin A receptor, type IC
Adam12	NM_007400.2	Adam12,ADAM12,a disintegrin and metalloproteinase	a disintegrin and metalloproteinase
Adgre1	NM_010130.1	Adgre1,adhesion G protein-coupled receptor	adhesion G protein-coupled receptor
Adm	NM_009627.1	Adm,adrenomedullin,AM,MGD-MRK-3709	adrenomedullin
Adora2a	NM_009630.2	A2AAR,A2aR,A2a, Rs,AA2AR,adenosine A2a	adenosine A2a receptor
Akt1	NM_009652.3	Akt,Akt1,MGD-MRK-1257,PKB,PKB/Akt,Plk1	thymoma viral proto-oncogene 1
Aldoa	NM_001177307.1	Aldo1,Aldo-1,Aldoa,aldolase 1 [Aldo-A isoc	aldolase A, fructose-bisphosphate
Aldoc	NM_009657.3	Al847350,Aldo3,Aldoc,Aldolase C,aldolase	aldolase C, fructose-bisphosphate
Angpt1	NM_009640.3	1110046O21Rik,ang1,Ang-1,angiopoietin	angiopoietin 1
Angpt2	NM_007426.3	Ang2,Ang-2,angiopoietin 2,Angpt2	angiopoietin 2
Angptl4	NM_020581.2	angiopoietin-like 4,Angptl4,BK89,FIAF,HF	angiopoietin-like 4
Anln	NM_028390.3	1110037A17Rik,2900037I21Rik,anillin, ac	anillin, actin binding protein
Apc	NM_007462.3	adenomatosis polyposis coli,Al047805,Ap	adenomatosis polyposis coli
Aph1b	NM_177583.4	2310057K14Rik,Aph1b,aph1 homolog B, g	aph1 homolog B, gamma secretase
Api5	NM_007466.2	AAC-11,Al196452,Api5,apoptosis inhibitor	apoptosis inhibitor 5
Aplnr	NM_011784.3	Agtrl1,angiotensin receptor-like 1,apelin	apelin receptor
Apoe	NM_001305844.1	Al255918,Apoe,apolipoprotein E,express	apolipoprotein E
Apol6	NM_001163621.1	2310076O14Rik,Apol6,apolipoprotein L 6,	apolipoprotein L 6
Aqp9	NM_001271843.1	1700020I22Rik,Al266899,Aqp9,aquaporin	aquaporin 9
Areg	NM_009704.3	amphiregulin,AR,Areg,Mcub,MGD-MRK-13	amphiregulin
Arg1	NM_007482.3	Al,Al256583,Arg1,Arg-1,arginase, liver,	arginase, liver
Arg2	NM_009705.3	All,Arg2,arginase type II,AU022422,expre	arginase type II
Arid1a	NM_001080819.1	1110030E03Rik,Arid1a,AT rich interactive	AT rich interactive domain 1A (SWI-
Arnt2	NM_007488.2	Arnt2,aryl hydrocarbon receptor nuclear	aryl hydrocarbon receptor nuclear t
Atf3	NM_007498.3	activating transcription factor 3,Atf3,LRC	activating transcription factor 3
Atm	NM_007499.1	Al256621,ataxia telangiectasia mutated,	ataxia telangiectasia mutated
Axin1	NM_001159598.1	Al316800,axin 1,Axin1,expressed sequenc	axin 1
Axl	NM_009465.3	Al323647,Ark,Axl,AXL receptor tyrosine k	AXL receptor tyrosine kinase
B2m	NM_009735.3	B2m,beta2-m,beta 2 microglobulin,beta-	beta-2 microglobulin
Bad	NM_007522.3	Al325008,Bad,Bbc2,BCL2-associated agor	BCL2-associated agonist of cell deat
Bambi	NM_026505.2	2610003H06Rik,Bambi,BMP and activin m	BMP and activin membrane-bound in
Batf3	NM_030060.2	9130211I03Rik,basic leucine zipper trans	basic leucine zipper transcription fa
Bax	NM_007527.3	Bax,BCL2-associated X protein,MGD-MRK	BCL2-associated X protein
Bbc3	NM_133234.2	Bbc3,BCL2 binding component 3,PUMA	BCL2 binding component 3
Bbs1	NM_001033128.3	Al451249,Bardet-Biedl syndrome 1 (hum	Bardet-Biedl syndrome 1 (human)
Bcat1	NM_001024468.3	Bcat1,Bcat-1,BCATc,branched chain amin	branched chain aminotransferase 1,
Bcl2	NM_009741.3	AW986256,B cell leukemia/lymphoma 2,	B cell leukemia/lymphoma 2
Bcl2l1	NM_009743.5	Bcl2l1,BCL2-like 1,bcl-x,BclX,Bcl-XL,Bcl	BCL2-like 1
Bcl6b	NM_007528.2	Bazf,B cell CLL/lymphoma 6, member B,	B cell CLL/lymphoma 6, member B
Bid	NM_007544.3	2700049M22Rik,Al875481,AU022477,BH3	BH3 interacting domain death agoni
Birc3	NM_007464.3	Api2,apoptosis inhibitor 1,AW107670,bac	baculoviral IAP repeat-containing 3
Birc5	NM_001012273.1	Api4,apoptosis inhibitor 4,baculoviral IAF	baculoviral IAP repeat-containing 5
Blk	NM_007549.2	Blk,B lymphoid kinase,MGD-MRK-1577	B lymphoid kinase
Blm	NM_001042527.2	Blm,Bloom syndrome, RecQ like helicase	Bloom syndrome, RecQ like helicase
Bmp2	NM_007553.2	Al467020,Bmp2,Bmp2a,bone morphogenet	bone morphogenetic protein 2
Bnip3	NM_009760.4	BCL2/adenovirus E1B interacting protein	BCL2/adenovirus E1B interacting pr
Bnip3l	NM_009761.3	BCL2/adenovirus E1B interacting protein	BCL2/adenovirus E1B interacting pr
Brca1	NM_009764.3	Brca1,breast cancer 1, early onset,MGD-	breast cancer 1, early onset
Brca2	NM_009765.3	Al256696,AW045498,Brca2,breast cancer	breast cancer 2, early onset
Brd3	NM_001113573.1	2410084F24Rik,AW060456,Brd3,bromodo	bromodomain containing 3
Brd4	NM_001286630.1	Brd4,bromodomain containing 4,DNA seg	bromodomain containing 4
Brip1	NM_178309.2	3110009N10Rik,8030460J03Rik,BACH1,BR	BRCA1 interacting protein C-termin

Btla	NM_001037719.2	B and T lymphocyte associated,Btla	B and T lymphocyte associated
C1qa	NM_007572.2	AI255395,C1q,C1qa,complement compon	complement component 1, q subcor
C1qb	NM_009777.2	C1qb,complement component 1, q subco	complement component 1, q subcor
C2	NM_013484.2	C2,classical-complement pathway C3/C5	complement component 2 (within H
C5ar1	NM_007577.3	C5aR,C5ar1,C5r1,Cd88,complement com	complement component 5a recepto
C7	XM_356827.7	C7,complement component 7,gene mode	complement component 7
Casp1	NM_009807.2	Casp1,caspase 1,Caspase-1,ICE,Il1bc,	inte caspase 1
Casp3	NM_009810.3	A830040C14Rik,AC-3,Apopain,Casp3,casp	caspase 3
Casp8	NM_009812.2	Casp8,caspase 8,Caspase-8,FLICE,MACH,	l caspase 8
Casp9	NM_015733.4	AI115399,AW493809,Casp9,caspase 9,Cas	caspase 9
Cblc	NM_023224.5	2310076I21Rik,2310079L19Rik,Casitas B-l	Casitas B-lineage lymphoma c
Ccl1	NM_011329.2	BF534335,Ccl1,CCR8 ligand,chemokine ((	chemokine (C-C motif) ligand 1
Ccl11	NM_011330.3	Ccl11,chemokine (C-C motif) ligand 11,e	chemokine (C-C motif) ligand 11
Ccl12	NM_011331.2	Ccl12,chemokine (C-C motif) ligand 12,M	chemokine (C-C motif) ligand 12
Ccl17	NM_011332.2	ABCD-2,Ccl17,chemokine (C-C motif) liga	chemokine (C-C motif) ligand 17
Ccl19	NM_011888.2	Ccl19,chemokine (C-C motif) ligand 19,C	chemokine (C-C motif) ligand 19
Ccl2	NM_011333.3	AI323594,Ccl2,chemokine (C-C motif) lig	chemokine (C-C motif) ligand 2
Ccl20	NM_016960.1	Ccl20,chemokine (C-C motif) ligand 20,C	chemokine (C-C motif) ligand 20
Ccl21a	NM_011124.4	6CKBAC2,6Ckine,ALP,AW987545,Ccl21a,cl	chemokine (C-C motif) ligand 21A (s
Ccl22	NM_009137.2	ABCD-1,Ccl22,chemokine (C-C motif) liga	chemokine (C-C motif) ligand 22
Ccl24	NM_019577.4	Ccl24,chemokine (C-C motif) ligand 24,C	chemokine (C-C motif) ligand 24
Ccl25	NM_009138.3	AI852536,Ccl25,chemokine (C-C motif) li	chemokine (C-C motif) ligand 25
Ccl26	NM_001013412.2	Ccl26,Ccl26l,chemokine (C-C motif) ligar	chemokine (C-C motif) ligand 26
Ccl27a	NM_001048179.1	ALP,AW558992,Ccl27,Ccl27a,chemokine (	chemokine (C-C motif) ligand 27A
Ccl28	NM_020279.3	CCK1,Ccl28,chemokine (C-C motif) liganc	chemokine (C-C motif) ligand 28
Ccl3	NM_011337.1	AI323804,Ccl3,CCL3,chemokine (C-C mot	chemokine (C-C motif) ligand 3
Ccl4	NM_013652.2	Act-2,AT744.1,Ccl4,chemokine (C-C moti	chemokine (C-C motif) ligand 4
Ccl5	NM_013653.3	Ccl5,chemokine (C-C motif) ligand 5,MGI	chemokine (C-C motif) ligand 5
Ccl6	NM_009139.2	c10,Ccl6,chemokine (C-C motif) ligand 6	chemokine (C-C motif) ligand 6
Ccl7	NM_013654.3	Ccl7,chemokine (C-C motif) ligand 7,fi	chemokine (C-C motif) ligand 7
Ccl8	NM_021443.2	1810063B20Rik,Ccl8,chemokine (C-C mot	chemokine (C-C motif) ligand 8
Ccl9	NM_011338.2	CCF18,Ccl9,chemokine (C-C motif) liganc	chemokine (C-C motif) ligand 9
Ccna1	NM_007628.3	Ccna1,cyclin A1,MGD-MRK-37078	cyclin A1
Ccnb1	NM_172301.3	Ccnb1,Ccnb1-rs13,Cybc-4,cyclin B1,cycli	cyclin B1
Ccnd1	NM_007631.1	AI327039,bcl-1,Ccnd1,cD1,CycD1,cyclin I	cyclin D1
Ccnd2	NM_009829.3	2600016F06Rik,AI256817,BF642806,C868'	cyclin D2
Ccnd3	NM_007632.2	9230106B05Rik,AA682053,AL024085,AW1	cyclin D3
Ccne1	NM_007633.2	AW538188,Ccne1,CycE1,cyclin E,cyclin E	cyclin E1
Ccno	NM_001081062.1	C86987,Ccno,Ccnu,cyclin O,cyclin U,exp	cyclin O
Ccr2	NM_009915.2	CC-CKR-2,Ccr2,CCR2A,CCR2B,chemokine	chemokine (C-C motif) receptor 2
Ccr4	NM_009916.2	CC CKR-4,Ccr4,chemokine (C-C motif) re	chemokine (C-C motif) receptor 4
Ccr5	NM_009917.5	Ccr5,CD195,chemokine (C-C motif) recep	chemokine (C-C motif) receptor 5
Ccr9	NM_009913.6	Ccr9,chemokine (C-C motif) receptor 9,c	chemokine (C-C motif) receptor 9
Cd14	NM_009841.3	Cd14,CD14 antigen,MGD-MRK-1831	CD14 antigen
Cd163	NM_053094.2	Cd163,CD163 antigen	CD163 antigen
Cd19	NM_009844.2	AW495831,Cd19,CD19 antigen,expressed	CD19 antigen
Cd1d1	NM_007639.3	AI747460,CD1.1,Cd1a,CD1a antigen,Cd1d	CD1d1 antigen
Cd2	NM_013486.2	Cd2,CD2 antigen,LFA-2,Ly37,Ly-37,lymph	CD2 antigen
Cd200r1	NM_021325.3	antigen identified by monoclonal antiboc	CD200 receptor 1
Cd209e	NM_130905.2	Cd209e,CD209e antigen,mSIGNR4,SIGNR<	CD209e antigen
Cd244	NM_018729.2	2B4,C9.1,Cd244,CD244 natural killer cell	CD244 natural killer cell receptor 2I
Cd247	NM_001113391.2	4930549J05Rik,AW552088,Cd247,CD247	a CD247 antigen
Cd27	NM_001042564.1	Cd27,CD27 antigen,MGD-MRK-1844,S152,	CD27 antigen
Cd274	NM_021893.2	B7-H1,Cd274,CD274 antigen,Pdcd1lg1,PD	CD274 antigen
Cd276	NM_133983.4	6030411F23Rik,AU016588,B7h3,B7-H3,B7	CD276 antigen

Cd28	NM_007642.4	Cd28,CD28 antigen,MGD-MRK-1845	CD28 antigen	
Cd300a	NM_170758.3	B230315M08Rik,Cd300a,CD300A molecule	CD300A molecule	
Cd36	NM_007643.3	Cd36,CD36 molecule,FAT,fatty acid trans	CD36 molecule	
Cd38	NM_007646.4	Cd38,CD38 antigen,CD38 antigen, relate	CD38 antigen	
Cd3d	NM_013487.3	CD3 antigen, delta polypeptide,Cd3d,MG	CD3 antigen, delta polypeptide	
Cd3e	NM_007648.4	AI504783,CD3,CD3 antigen, epsilon polyp	CD3 antigen, epsilon polypeptide	
Cd3g	NM_009850.2	CD3 antigen, gamma polypeptide,Cd3g,C	CD3 antigen, gamma polypeptide	
Cd4	NM_013488.2	Cd4,CD4 antigen,L3T4,Ly-4,lymphocyte a	CD4 antigen	
Cd40	NM_011611.2	AI326936,Bp50,Cd40,CD40 antigen,expre	CD40 antigen	
Cd40lg	NM_011616.2	CD154,CD40 antigen ligand,Cd40l,Cd40L,	CD40 ligand	
Cd44	NM_009851.2	AU023126,AW121933,AW146109,Cd44,CD	CD44 antigen	
Cd47	NM_010581.3	9130415E20Rik,AA407862,AI848868,AW10	CD47 antigen (Rh-related antigen, i	
Cd48	NM_007649.4	AI449234,AW610730,B-cell membrane pro	CD48 antigen	
Cd5	NM_007650.3	Cd5,CD5 antigen,Ly-1,Ly-12,Ly-A,lympho	CD5 antigen	
Cd6	NM_001037801.2	Cd6,CD6 antigen,MGD-MRK-24451	CD6 antigen	
Cd68	NM_009853.1	Cd68,CD68 antigen,gp110,Lamp4,macros	CD68 antigen	
Cd69	NM_001033122.3	5830438K24Rik,AI452015,AIM,Cd69,CD69	CD69 antigen	
Cd7	NM_009854.1	Cd7,CD7 antigen,MGD-MRK-1870	CD7 antigen	
Cd70	NM_011617.1	CD27LG,Cd70,CD70 antigen,Ki-24 antiger	CD70 antigen	
Cd74	NM_001042605.1	Cd74,CD74 antigen (invariant polypeptid	CD74 antigen (invariant polypeptide	
Cd79a	NM_007655.3	aimmunoglobulin-associated alpha,Cd79a	CD79A antigen (immunoglobulin-ass	
Cd79b	NM_008339.2	B29,Cd79b,CD79B antigen,lgb,Igbeta,Ig-t	CD79B antigen	
Cd80	NM_009855.2	B7-1,B7.1,CD28 antigen ligand,Cd28l,Cd	CD80 antigen	
Cd84	NM_013489.2	A130013D22Rik,Cd84,CD84 antigen,CDw8	CD84 antigen	
Cd86	NM_019388.3	B70,B7-2,B7.2,CD28 antigen ligand,Cd28l	CD86 antigen	
Cd8a	NM_001081110.2	BB154331,Cd8a,CD8 antigen, alpha chain	CD8 antigen, alpha chain	
Cd8b1	NM_009858.2	CD8 antigen, beta chain 1,Cd8b1,Ly-3,Ly-	CD8 antigen, beta chain 1	
Cd96	NM_032465.2	1700109I12Rik,Cd96,CD96 antigen,MGI:1	CD96 antigen	
Cdc20	NM_023223.2	2310042N09Rik,C87100,Cdc20,cell divisic	cell division cycle 20	
Cdc25c	NM_009860.2	Cdc25,Cdc25c,cell division cycle 25C,cell	cell division cycle 25C	
Cdh1	NM_009864.2	AA960649,cadherin 1,Cdh1,Ecad,E-cad,E	cadherin 1	
Cdh11	NM_009866.5	Cad11,cadherin 11,Cdh11,MGD-MRK-1597	cadherin 11	
Cdh2	NM_007664.5	cadherin 2,cadherin, N-,Cdh2,MGD-MRK-	cadherin 2	
Cdh5	NM_009868.4	7B4/cadherin-5,AA408225,cadherin 5,CD	cadherin 5	
Cdk2	NM_016756.4	A630093N05Rik,Cdk2,cyclin-dependent k	cyclin-dependent kinase 2	
Cdk6	NM_009873.2	AI504062,CDC2-related kinase 2,Cdk6,CrI	cyclin-dependent kinase 6	
Cdkn1a	NM_007669.4	CAP20,CDKI,Cdkn1,Cdkn1a,CIP1,cyclin de	cyclin-dependent kinase inhibitor 1,	
Cdkn1c	NM_009876.3	AL024410,CDKI,Cdkn1c,cyclin-dependent	cyclin-dependent kinase inhibitor 1C	
Cdkn2a	NM_001040654.1	Arf,ARF-INK4a,Cdkn2a,cyclin-dependent	cyclin-dependent kinase inhibitor 2,	
Cdkn2b	NM_007670.4	AV083695,Cdkn2b,cyclin-dependent kina	cyclin-dependent kinase inhibitor 2I	
Ceacam3	NM_054059.1	carcinoembryonic antigen-related cell ac	carcinoembryonic antigen-related c	
Cebpb	NM_009883.4	CCAAT/enhancer binding protein (C/EBP)	CCAAT/enhancer binding protein (C	
Cenpf	NM_001081363.2	6530404A22Rik,AI325968,Cenpf,centrom	centromere protein F	
Cep55	NM_028760.1	1200008O12Rik,2700032M20Rik,centrosor	centrosomal protein 55	
Ces3a	NM_001164681.1	carboxylesterase 3A,Ces3a,Es31,Es-male	carboxylesterase 3A	
Chd9	NM_177224.2	1810014J18Rik,9030205D12Rik,A330063D	chromodomain helicase DNA binding	
Chuk	NM_001162410.1	AI256658,Chuk,Chuk1,conserved helix-lo	conserved helix-loop-helix ubiquito	
Clec14a	NM_025809.5	1200003C23Rik,AI642649,Clec14a,C-type	C-type lectin domain family 14, me	
Clec4e	NM_019948.2	C86253,Clec4e,Clecsf9,C-type (calcium c	C-type lectin domain family 4, mem	
Clec5a	NM_001038604.1	Clec5a,Clecsf5,C-type (calcium depende	C-type lectin domain family 5, mem	
Clec7a	NM_020008.2	beta-glucan receptor,beta-GR,BGR,Clec7	C-type lectin domain family 7, mem	
Cmklr1	NM_008153.3	chemokine-like receptor 1,ChemR23,Cml	chemokine-like receptor 1	
Cmtm4	NM_153582.5	chemokine-like factor super family 4,CKI	CKLF-like MARVEL transmembrane c	
Cmtm6	NM_026036.3	2810051A14Rik,AA536733,chemokine-like	CKLF-like MARVEL transmembrane c	
Cntfr	NM_001146080.1	ciliary neurotrophic factor receptor,Cntfr	ciliary neurotrophic factor receptor	

Col11a1	NM_007729.2	C530001D20Rik,cho,chondrodysplasia,Col collagen, type XI, alpha 1
Col11a2	NM_009926.2	Col11a2,collagen, type XI, alpha 2,MGD-I collagen, type XI, alpha 2
Col17a1	NM_007732.2	BP180,Bpag,Bpag2,BPAG2,bullous pemphi collagen, type XVII, alpha 1
Col4a5	NM_001163155.1	Col4a5,collagen, type IV, alpha 5,MGD-MI collagen, type IV, alpha 5
Col5a1	NM_015734.2	AI413331,Col5a1,collagen, type V, alpha collagen, type V, alpha 1
Col6a3	XM_897036.2	AI507288,Col6a3,Col6a-3,collagen, type 'collagen, type VI, alpha 3
Comp	NM_016685.2	cartilage oligomeric matrix protein,Com cartilage oligomeric matrix protein
Cpa3	NM_007753.2	carboxypeptidase A3, mast cell,Cpa3,ma carboxypeptidase A3, mast cell
Crabp2	NM_007759.2	AI893628,cellular retinoic acid binding p cellular retinoic acid binding protei
Csf1	NM_001113529.1	C87615,colony-stimulating factor-1,color colony stimulating factor 1 (macrop
Csf1r	NM_001037859.1	AI323359,CD115,c-fms oncogene,colony s colony stimulating factor 1 receptor
Csf2	NM_009969.4	colony stimulating factor 2 (granulocyte- colony stimulating factor 2 (granulo
Csf2rb	NM_007780.4	AI848964,AIC2B,Bc,beta c,CDw131,colon colony stimulating factor 2 receptor
Csf3	NM_009971.1	colony stimulating factor 3 (granulocyte) colony stimulating factor 3 (granulo
Csf3r	NM_001252651.1	Cd114,colony stimulating factor 3 recept colony stimulating factor 3 receptor
Ctla4	NM_009843.3	Cd152,CD152 antigen,Ctla4,Ctla-4,cytotc cytotoxic T-lymphocyte-associated
Ctnnb1	NM_007614.3	batface,beta catenin,beta-catenin,Bfc,ci catenin (cadherin associated protei
Ctss	NM_021281.3	cathepsin S,Cat S,Ctss,MGD-MRK-35807 cathepsin S
Ctsw	NM_009985.5	cathepsin W,Ctsw,lymphopain cathepsin W
Cx3cl1	NM_009142.3	AB030188,AI848747,chemokine (C-X3-C n chemokine (C-X3-C motif) ligand 1
Cx3cr1	NM_009987.3	chemokine (C-X3-C motif) receptor 1,Cx chemokine (C-X3-C motif) receptor
Cxcl1	NM_008176.1	chemokine (C-X-C motif) ligand 1,Cxcl1,f chemokine (C-X-C motif) ligand 1
Cxcl10	NM_021274.1	C7,chemokine (C-X-C motif) ligand 10,CR chemokine (C-X-C motif) ligand 10
Cxcl11	NM_019494.1	betaR1,b-R1,chemokine (C-X-C motif) lig chemokine (C-X-C motif) ligand 11
Cxcl12	NM_013655.4	AI174028,chemokine (C-X-C motif) ligand chemokine (C-X-C motif) ligand 12
Cxcl13	NM_018866.2	4631412M08Rik,ANGIE2,BCA-1,BLC,chem chemokine (C-X-C motif) ligand 13
Cxcl14	NM_019568.2	1110031L23Rik,1200006I23Rik,AI414372,I chemokine (C-X-C motif) ligand 14
Cxcl15	NM_011339.2	chemokine (C-X-C motif) ligand 15,Cxcl1 chemokine (C-X-C motif) ligand 15
Cxcl16	NM_023158.6	0910001K24Rik,AV290116,BB024863,chen chemokine (C-X-C motif) ligand 16
Cxcl2	NM_009140.2	chemokine (C-X-C motif) ligand 2,CINC-2 chemokine (C-X-C motif) ligand 2
Cxcl3	NM_203320.2	chemokine (C-X-C motif) ligand 3,Cxcl3,I chemokine (C-X-C motif) ligand 3
Cxcl5	NM_009141.2	AMCF-II,chemokine (C-X-C motif) ligand chemokine (C-X-C motif) ligand 5
Cxcl9	NM_008599.2	BB139920,chemokine (C-X-C motif) ligand chemokine (C-X-C motif) ligand 9
Cxcr2	NM_009909.3	CD128,chemokine (C-X-C motif) receptor chemokine (C-X-C motif) receptor 2
Cxcr3	NM_009910.2	Cd183,chemokine (C-X-C motif) receptor chemokine (C-X-C motif) receptor 3
Cxcr4	NM_009911.3	b2b220Clo,CD184,chemokine (C-X-C moti chemokine (C-X-C motif) receptor 4
Cxcr5	NM_007551.2	Blr1,Burkitt lymphoma receptor 1,chemo chemokine (C-X-C motif) receptor 5
Cxcr6	NM_030712.4	BB217514,BONZO,chemokine (C-X-C moti chemokine (C-X-C motif) receptor 6
Cybb	NM_007807.5	C88302,Cgd,Cybb,cytochrome b-245, bet cytochrome b-245, beta polypeptide
Dab2	NM_023118.5	5730435J12Rik,AA960054,AI957090,D15W disabled 2, mitogen-responsive pho
Ddb2	NM_028119.5	2610043A19Rik,damage specific DNA binc damage specific DNA binding protei
Deptor	NM_001037937.3	4731402B04Rik,9130412E02Rik,D15Ert d3: DEP domain containing MTOR-intera
Dkk1	NM_010051.3	dickkopf WNT signaling pathway inhibito dickkopf WNT signaling pathway inh
Dll1	NM_007865.3	Delta1,delta like canonical Notch ligand delta like canonical Notch ligand 1
Dll4	NM_019454.3	Delta4,delta like canonical Notch ligand delta like canonical Notch ligand 4
Dnmt1	NM_010066.3	Cxxc9,DNA methyltransferase (cytosine-5 DNA methyltransferase (cytosine-5)
Dpp4	NM_001159543.1	Cd26,CD26 antigen,dipeptidylpeptidase < dipeptidylpeptidase 4
Dsc3	NM_007882.3	5430426I24Rik,desmocollin 3,Dsc3,MGI:1' desmocollin 3
Dtx3l	NM_001013371.2	AU042200,BC023741,cDNA sequence BC0: deltex 3-like, E3 ubiquitin ligase
Dtx4	NM_172442.3	AI449438,BC044798,cDNA sequence BC04 deltex 4, E3 ubiquitin ligase
Dusp1	NM_013642.3	3CH134,dual specificity phosphatase 1,D dual specificity phosphatase 1
Dusp2	NM_010090.2	dual specificity phosphatase 2,Dusp2,MG dual specificity phosphatase 2
Dusp5	NM_001085390.1	dual specificity phosphatase 5,Dusp5,gen dual specificity phosphatase 5
E2f3	NM_010093.3	E2f3,E2f3a,E2F3b,E2F transcription factc E2F transcription factor 3
Edn1	NM_010104.3	Edn1,endothelin 1,ET-1,MGD-MRK-9298 endothelin 1

Egf	NM_010113.4	AI790464,Egf,epidermal growth factor,ex epidermal growth factor
Egfr	NM_207655.2	9030024J15Rik,AI552599,avian erythroblast epidermal growth factor receptor
Egr1	NM_007913.5	A530045N19Rik,early growth response 1,early growth response 1
Eif2ak2	NM_011163.4	2310047A08Rik,4732414G15Rik,AI467567,eukaryotic translation initiation fac
Eif2b4	NM_010122.2	Eif2b,Eif2b4,eukaryotic translation initia eukaryotic translation initiation fac
Eif4ebp1	NM_007918.3	4e-bp1,AA959816,Eif4ebp1,eukaryotic tra eukaryotic translation initiation fac
Elob	NM_026305.2	0610040H15Rik,18 kDa, elongin B,Elob,el elongin B
Eno1	NM_023119.2	2-phospho-D-glycerate hydrolase,AL0227 enolase 1, alpha non-neuron
Entpd1	NM_009848.3	2610206B08Rik,AA408691,Cd39,CD39 ant ectonucleoside triphosphate diphos
Eomes	NM_010136.2	C77258,Eomes,eomesodermin,expressed eomesodermin
Epcam	NM_008532.2	CD326,EGP-2,Egp314,Epcam,EpCAM,Ep-C epithelial cell adhesion molecule
Epm2aip1	NM_175266.4	A930003G21Rik,Epm2aip1,EPM2A (laforin EPM2A (laforin) interacting protein
ErbB2	NM_001003817.1	avian erythroblastosis oncogene B 2,c-erl erb-b2 receptor tyrosine kinase 2
Ero1l	NM_015774.3	Ero1l,ERO1-like ( <i>S. cerevisiae</i> ) ERO1-like ( <i>S. cerevisiae</i> )
Esr1	NM_007956.5	AA420328,AU041214,ERa,ER[a],ERalpha,Estrogen receptor 1 (alpha)
Exo1	NM_012012.4	5730442G03Rik,Exo1,exonuclease 1,MGI: exonuclease 1
Ezh2	NM_007971.2	enhancer of zeste 2 polycomb repressive enhancer of zeste 2 polycomb repre
F2rl1	NM_007974.4	coagulation factor II (thrombin) receptor coagulation factor II (thrombin) rec
Fadd	NM_010175.5	Fadd,Fas (TNFRSF6)-associated via death Fas (TNFRSF6)-associated via death
Fam124b	NM_173425.3	A830043J08Rik,Fam124b,family with seq family with sequence similarity 124
Fanca	NM_016925.3	AW208693,expressed sequence AW208693 Fanconi anemia, complementation
Fap	NM_007986.2	Fap,fibroblast activation protein,MGD-MF fibroblast activation protein
Fas	NM_007987.2	AI196731,APO-1,CD95,expressed sequenc Fas (TNF receptor superfamily mem
FasL	NM_001205243.1	APT1LG1,CD178,CD95L,Fas antigen ligand Fas ligand (TNF superfamily, membe
Fbp1	NM_019395.3	Fbp1,Fbp-2,Fbp3,FBPase brain isoform,Fl fructose bisphosphatase 1
Fcεr1a	NM_010184.1	Fce1a,Fc epsilon high affinity receptor al Fc receptor, IgE, high affinity I, alph
Fcγr1	NM_010186.5	AI323638,AV092959,CD64,expressed sequ Fc receptor, IgG, high affinity I
Fcγr2b	NM_001077189.1	AI528646,CD32,expressed sequence AI528646 Fc receptor, IgG, low affinity IIb
Fcγr3	NM_010188.5	CD16,FcγIII,Fcγr3,Fcγ receptor III Fc receptor, IgG, low affinity III
Fcγr4	NM_144559.1	4833442P21Rik,CD16-2,Fc fragment of Ig Fc receptor, IgG, low affinity IV
Fcγrt	NM_010189.3	Fcγrt,Fc receptor, IgG, alpha chain trans Fc receptor, IgG, alpha chain transp
Fcnb	NM_010190.1	Fcnb,ficolin B ficolin B
Fcrlb	NM_001029984.2	Fc receptor-like B,Fc receptor related Y,Fc receptor-like B
Fgf13	NM_010200.2	Fgf13,Fhf2, fibroblast growth factor 13,M fibroblast growth factor 13
Fgf18	NM_008005.2	D130055P09Rik,Fgf18,FGF-18, fibroblast & fibroblast growth factor 18
Fgf9	NM_013518.4	Eks,elbow knee synostosis,Fgf9, fibroblast fibroblast growth factor 9
Fgfr1	NM_010206.2	AW208770,ear askew,Eask,expressed seq fibroblast growth factor receptor 1
Flnb	NM_134080.1	AL024016,expressed sequence AL024016, filamin, beta
Flt1	NM_010228.3	AI323757,expressed sequence AI323757, FMS-like tyrosine kinase 1
Fosl1	NM_010235.2	AW538199,expressed sequence AW538199 fos-like antigen 1
Foxp3	NM_054039.2	forkhead box P3,Foxp3,JM2,MGD-MRK-14 forkhead box P3
Fpr1	NM_013521.2	fMLF-R,formyl peptide receptor 1,FPR,Fc formyl peptide receptor 1
Fpr3	NM_008042.2	formyl peptide receptor 3,formyl peptid formyl peptide receptor 3
Fstl3	NM_031380.2	E030038F23Rik,Flrg,follistatin-like 3,Fstl3 follistatin-like 3
Fut4	NM_010242.3	3-fucosyl-N-acetyl-lactosamine epitope, fucosyltransferase 4
Fyn	NM_008054.2	AI448320,AW552119,expressed sequence Fyn proto-oncogene
Fzd8	NM_008058.2	frizzled class receptor 8,Fz8,Fzd8,mFZ8, frizzled class receptor 8
Fzd9	NM_010246.1	frizzled 9,frizzled class receptor 9,Fzd9, frizzled class receptor 9
Gas1	NM_008086.1	AW554192,expressed sequence AW554192 growth arrest specific 1
Gata3	NM_008091.3	Gata3,Gata-3,GATA binding protein 3,jal, GATA binding protein 3
Gbp2	NM_010260.1	Gbp2,guanylate binding protein 2,MGD-M guanylate binding protein 2
Gbp2b	NM_010259.2	Gbp1,Gbp-1,Gbp2b,guanylate binding pr guanylate binding protein 2b
Gbp3	NM_018734.3	AW228655,expressed sequence AW228655 guanylate binding protein 3
Ghr	NM_001048147.1	AA986417,expressed sequence AA986417 growth hormone receptor
Gimap4	NM_001243199.1	AU019574,E430007K16Rik,expressed seq GTPase, IMAP family member 4

Gimap6	NM_153175.3	4833419H03Rik,Gimap6,GTPase, IMAP far GTPase, IMAP family member 6
Gli1	NM_010296.2	AV235269,expressed sequence AV235269, GLI-Kruppel family member GLI1
Gls	NM_001081081.2	AI314027,B230365M23Rik,expressed sequ glutaminase
Glud1	NM_008133.4	AI118167,anonymous DNA segment, Chr 1glutamate dehydrogenase 1
Glul	NM_008131.3	Glns,Glul,glutamate-ammonia ligase (glu glutamate-ammonia ligase (glutami
Gm5150	NM_001081687.1	381484,Gm5150,predicted gene, 381484, predicted gene 5150
Gmip	NM_198101.1	5031419I10Rik,Gem-interacting protein,(Gem-interacting protein
Gng4	NM_010317.2	4,Gng4,guanine nucleotide binding prote guanine nucleotide binding protein
Got1	NM_010324.2	AI789014,cAspAT,cytosolic aspartate ami glutamic-oxaloacetic transaminase
Got2	NM_010325.2	AL022787,expressed sequence AL022787, glutamatic-oxaloacetic transaminas
Gpc4	NM_008150.2	9530073D23Rik,AF311610,AI385680,AI661glypican 4
Gpr160	NM_001134386.1	1700025D19Rik,Gpr160,G protein-couple G protein-coupled receptor 160
Gpsm3	NM_134116.5	AA960287,AGS4,expressed sequence AA9 G-protein signalling modulator 3 (A
Gzma	NM_010370.2	AW494114,BLT esterase,Ctla3,Ctla-3,cytc granzyme A
Gzmb	NM_013542.2	AI553453,CCP1,CCP-1/C11,Ctla1,Ctla-1,c granzyme B
Gzme	NM_010373.3	CCP3,Ctla6,Ctla-6,cytotoxic T lymphocyt granzyme E
H2-Aa	NM_010378.2	Aalpha,A alpha,H-2Aa,H2-Aa,histocompa histocompatibility 2, class II antigen
H2-Ab1	NM_207105.3	Abeta,A beta,AI845868,expressed sequer histocompatibility 2, class II antigen
H2-D1	NM_010380.3	H-2D,H2-D1,histocompatibility 2, D regio histocompatibility 2, D region locus
H2-DMa	NM_010386.4	H2-DMa,H-2Ma,H2-Ma,H2-M alpha,histoc histocompatibility 2, class II, locus I
H2-DMb1	NM_010387.2	AI385589,expressed sequence AI385589,H histocompatibility 2, class II, locus I
H2-DMb2	NM_010388.4	H2-DMb2,H-2Mb2,H2-Mb2,H2-M beta2,his histocompatibility 2, class II, locus I
H2-Eb1	NM_010382.2	H-2Eb,H2-Eb1,histocompatibility 2, class histocompatibility 2, class II antigen
H2-K1	NM_001001892.2	H-2K,H2-K1,histocompatibility 2, K1, K r histocompatibility 2, K1, K region
H2-M3	NM_013819.2	H-2M3,H2-M3,histocompatibility 2, M reg histocompatibility 2, M region locus
H2-Ob	NM_010389.3	A-beta2,A-beta-2,H2-Ab,H2-Ab2,H-2I,H2- histocompatibility 2, O region beta
H2-Pa	ENSMUST00000182803.1	H2-Pa,histocompatibility 2, P region alph histocompatibility 2, P region alpha
H2-Q1	NM_010390.3	15006,H-2Q1,H2-Q1,histocompatibility 2,histocompatibility 2, Q region locus
H2-Q10	NM_010391.4	H-2Q10,H2-Q10,histocompatibility 2, Q r histocompatibility 2, Q region locus
H2-Q2	NM_010392.2	BE136769,ENSMUSG00000079507,express histocompatibility 2, Q region locus
H2-T23	NM_010398.3	37b,37c,H-2T23,H2-T23,histocompatibili histocompatibility 2, T region locus
H2afx	NM_010436.2	AW228881,expressed sequence AW228881H2A histone family, member X
Havcr2	NM_134250.2	Havcr2,hepatitis A virus cellular receptor hepatitis A virus cellular receptor 2
Hc	NM_010406.2	C5,C5a,Hc,He,hemolytic complement,MC hemolytic complement
Hck	NM_010407.3	AI849071,B-cell myeloid kinase,Bmk,expr hemopoietic cell kinase
Hdac11	NM_144919.2	Hdac11,histone deacetylase 11,MGC:276 histone deacetylase 11
Hdac3	NM_010411.2	AW537363,expressed sequence AW537363 histone deacetylase 3
Hdac4	XM_006529302.1	4932408F19Rik,AI047285,expressed sequ histone deacetylase 4
Hdac5	NM_010412.3	AI426555,expressed sequence AI426555,H histone deacetylase 5
Hdc	NM_008230.6	AW108189,expressed sequence AW108189 histidine decarboxylase
Hells	NM_008234.3	AI323785,E130115I21Rik,expressed seque helicase, lymphoid specific
Herc6	NM_025992.2	1700121D12Rik,2510038N07Rik,4930427L hect domain and RLD 6
Hes1	NM_008235.2	bHLHb39,hairy (Drosophila) homolog,Hes hes family bHLH transcription facto
Hey1	NM_010423.2	AI316788,AI414254,bHLHb31,CHF2,expre hairy/enhancer-of-split related with
Hif1a	NM_010431.2	AA959795,bHLHe78,expressed sequence , hypoxia inducible factor 1, alpha su
Hk1	NM_001146100.1	BB404130,dea,downeast anemia,express hexokinase 1
Hk2	NM_013820.3	AI642394,expressed sequence AI642394,h hexokinase 2
Hmga1	NM_001166545.1	AL023995,expressed sequence AL023995, high mobility group AT-hook 1
Hmgb1	NM_010439.3	amphoterin,DEF,high mobility group box high mobility group box 1
Hnf1a	NM_009327.1	AI323641,expressed sequence AI323641,h HNF1 homeobox A
Hras	NM_001130443.1	c-H-ras,c-rasHa,Ha-ras,Harvey-ras,Harve Harvey rat sarcoma virus oncogene
Hsd11b1	NM_001044751.1	11beta-HSD-1,11beta-hydroxysteroid deh hydroxysteroid 11-beta dehydrogen
Icam1	NM_010493.2	CD54,Icam1,Icam-1,intercellular adhesio intercellular adhesion molecule 1
Icam2	NM_010494.1	CD102,Icam2,Icam-2,intercellular adhesi intercellular adhesion molecule 2
Icam5	NM_008319.2	CD50,Icam3,Icam5,intercellular adhesion intercellular adhesion molecule 5, t

Icos	NM_017480.1	Icos,inducible T cell co-stimulator	inducible T cell co-stimulator
Icosl	NM_015790.3	AU044799,B7h,B7-H2,B7RP-1,BG071784,Eicos ligand	
Id4	NM_031166.2	bHLHb27,Id4,Idb4,inhibitor of DNA bindir inhibitor of DNA binding 4	
Ido1	NM_008324.2	Ido,Ido1,Indo,indole 2,3-dioxygenase,ind indoleamine 2,3-dioxygenase 1	
Ier3	NM_133662.2	AI663993,cAMP inducible gene 3,ci-3,exp immediate early response 3	
Ifi203	NM_001045481.1	Ifi203,interferon activated gene 203,MGI interferon activated gene 203	
Ifi27	NM_026790.2	1110013J02Rik,2900026P10Rik,D12Ert64 interferon, alpha-inducible protein	
Ifi35	NM_027320.4	2010008K16Rik,AW986054,expressed seq interferon-induced protein 35	
Ifih1	NM_027835.3	9130009C22Rik,Helicard,Ifih1,interferon interferon induced with helicase C	
Ifit1	NM_008331.2	Ifi56,Ifit1,interferon-induced protein wit interferon-induced protein with tet	
Ifit2	NM_008332.2	AV302338,expressed sequence AV302338, interferon-induced protein with tet	
Ifit3	NM_010501.1	Ifi49,Ifit3,interferon-induced protein wit interferon-induced protein with tet	
Ifitm1	NM_001112715.1	1110036C17Rik,fragilis2,Ifitm1,interferor interferon induced transmembrane	
Ifitm2	NM_030694.1	fragilis3,Ifitm2,Ifitm3l,interferon induce interferon induced transmembrane	
Ifna1	NM_010502.2	Ifa1,Ifna1,interferon alpha 1,MGD-MRK-1 interferon alpha 1	
Ifnar1	NM_010508.1	Ifar,IFN-alpha/betaR,Ifnar1,Ifrc,interfero interferon (alpha and beta) recepto	
Ifng	NM_008337.1	Ifg,Ifng,IFN-gamma,interferon gamma,MG interferon gamma	
Ifngr1	NM_010511.2	CD119,Ifgr,IFN-gammaR,IFN-gamma R,Ifn interferon gamma receptor 1	
Ifngr2	NM_008338.3	Ifgr2,Ifgt,Ifngr2,interferon gamma recepti interferon gamma receptor 2	
Igf2r	NM_010515.2	AI661837,CD222,CI-MPR,expressed seque insulin-like growth factor 2 recepto	
Ihh	NM_010544.2	Ihh,Indian hedgehog,MGD-MRK-11343	Indian hedgehog
Ikbkb	NM_010546.2	AI132552,expressed sequence AI132552,Ii inhibitor of kappaB kinase beta	
Ikbkg	NM_001161423.1	1110037D23Rik,AI848108,AI851264,AW12 inhibitor of kappaB kinase gamma	
Ikzf1	NM_009578.2	5832432G11Rik,early lymphoid specific t IKAROS family zinc finger 1	
Ikzf2	NM_011770.4	A730095J18Rik,Helios,IKAROS family zinc IKAROS family zinc finger 2	
Ikzf3	NM_011771.1	5830411O07Rik,Aiolos,IKAROS family zinc IKAROS family zinc finger 3	
Il10	NM_010548.1	cytokine synthesis inhibitory factor,Il10,I interleukin 10	
Il10ra	NM_008348.2	AW553859,CDw210,expressed sequence A interleukin 10 receptor, alpha	
Il11	NM_008350.2	Il11,IL-11,interleukin 11,MGD-MRK-36187 interleukin 11	
Il11ra1	NM_010549.3	AI314697,expressed sequence AI314697,Ii interleukin 11 receptor, alpha chain	
Il12rb2	NM_008354.3	A930027I18Rik,Ifnm,Il12rb2,IL-12RB2,int interleukin 12 receptor, beta 2	
Il15	NM_008357.2	AI503618,expressed sequence AI503618,Ii interleukin 15	
Il16	NM_010551.3	Il16,interleukin 16	interleukin 16
Il17a	NM_010552.3	Ctla8,Ctla-8,cytotoxic T lymphocyte-assc interleukin 17A	
Il18	NM_008360.1	Igif,Il18,IL-18,interferon gamma inducing interleukin 18	
Il18bp	NM_010531.1	Igfbp,Il18bp,IL-18BP,interferon gamma ii interleukin 18 binding protein	
Il18r1	NM_001161842.1	Il18r1,Il18alpha,Il1rrp,interleukin 18 rec interleukin 18 receptor 1	
Il1a	NM_010554.4	Il1a,Il-1a,interleukin 1 alpha,MGD-MRK-1 interleukin 1 alpha	
Il1b	NM_008361.3	Il1b,Il-1b,IL-1B,IL-1beta,interleukin 1 be interleukin 1 beta	
Il1r2	NM_010555.4	CD121b,Il1r2,Il1r-2,IL-1 receptor beta ch interleukin 1 receptor, type II	
Il1rn	NM_001039701.3	F630041P17Rik,IL-1ra,Il1rn,interleukin 1 interleukin 1 receptor antagonist	
Il2	NM_008366.3	Il2,IL-2,IL-2,interleukin 2,MGD-MRK-11355 interleukin 2	
Il21r	NM_021887.1	Il21r,interleukin 21 receptor,NILR	interleukin 21 receptor
Il22ra1	NM_178257.1	Il22r,Il22ra1,interleukin 22 receptor, alph interleukin 22 receptor, alpha 1	
Il23r	NM_144548.1	Il23r,interleukin 23 receptor	interleukin 23 receptor
Il24	NM_053095.2	FISP,Il24,interleukin 24,Mda-7	interleukin 24
Il2ra	NM_008367.2	CD25,Il2r,Il2ra,IL-2R alpha chain,interleu interleukin 2 receptor, alpha chain	
Il2rb	NM_008368.3	CD122,IL15Rbeta,IL-15Rbeta,IL-15 recept interleukin 2 receptor, beta chain	
Il2rg	NM_013563.3	CD132,common cytokine receptor gamm interleukin 2 receptor, gamma chain	
Il33	NM_133775.1	9230117N10Rik,Il1f11,Il33,IL-33,interleuk interleukin 33	
Il34	NM_001135100.2	2010004A03Rik,AI593503,expressed sequ interleukin 34	
Il4	NM_021283.1	Il4,IL-4,interleukin 4,MGD-MRK-11355,MG interleukin 4	
Il6	NM_031168.1	Il6,IL-6,interleukin 6,MGD-MRK-11357,MG interleukin 6	
Il6ra	NM_010559.2	CD126,Il6r,IL-6R,Il6ra,IL-6 receptor alpha interleukin 6 receptor, alpha	
Il7r	NM_008372.3	CD127,Il7r,IL-7Ralpha,IL-7 receptor alpha interleukin 7 receptor	

Inhba	NM_008380.2	activin beta-A,Inhba, inhibin beta-A, MGD· inhibin beta-A	
Irf1	NM_008390.2	AU020929, expressed sequence AU020929 interferon regulatory factor 1	
Irf2	NM_008391.4	9830146E22Rik, AI646973, expressed sequ interferon regulatory factor 2	
Irf3	NM_016849.4	C920001K05Rik, interferon regulatory fac interferon regulatory factor 3	
Irf4	NM_013674.1	AI385587, expressed sequence AI385587, ii interferon regulatory factor 4	
Irf5	NM_001252382.1	AW491843, expressed sequence AW491843 interferon regulatory factor 5	
Irf7	NM_016850.2	interferon regulatory factor 7, Irf7 interferon regulatory factor 7	
Irf8	NM_008320.3	AI893568, expressed sequence AI893568, I interferon regulatory factor 8	
Irf9	NM_008394.2	interferon dependent positive acting tra interferon regulatory factor 9	
Isg15	NM_015783.3	100038882, G1p2, interferon, alpha-induci ISG15 ubiquitin-like modifier	
Itga1	NM_001033228.3	CD49A, E130012M19Rik, integrin alpha 1, It integrin alpha 1	
Itga2	NM_008396.2	CD49B, DX5, integrin alpha 2, Itga2, MGD-M integrin alpha 2	
Itga4	NM_010576.3	integrin alpha 4, Itga4, MGD-MRK-11482, VI integrin alpha 4	
Itga6	NM_008397.4	5033401O05Rik, AI115430, Cd49f, expresse integrin alpha 6	
Itgae	NM_008399.1	alpha-E1, CD103, integrin alpha E, epithel integrin alpha E, epithelial-associat	
Itgal	NM_008400.2	Cd11a, CD11a antigen, integrin alpha L, It integrin alpha L	
Itgam	NM_001082960.1	Cd11b, CD11b/CD18, CD11B (p170), compl integrin alpha M	
Itgav	NM_008402.3	1110004F14Rik, 2610028E01Rik, alphav-int integrin alpha V	
Itgax	NM_021334.2	AI449405, Cd11c, CD11C (p150) alpha pol integrin alpha X	
Itgb2	NM_008404.4	2E6, AI528527, Cd18, CD18 antigen, expres integrin beta 2	
Itgb3	NM_016780.2	CD61, integrin beta 3, Itgb3, MGD-MRK-114 integrin beta 3	
Itgb8	NM_177290.3	4832412O06Rik, integrin beta 8, Itgb8, MGI integrin beta 8	
Itpk1	NM_172584.3	BC031182, cDNA sequence BC031182, inosi inositol 1,3,4-triphosphate 5/6 kina	
Jag1	NM_013822.5	ABE2, Gsfabe2, gsf abnormal behavior 2, h jagged 1	
Jag2	NM_010588.2	D12Ggc2e, DNA segment, Chr 12, G. Cons jagged 2	
Jak1	NM_146145.2	AA960307, BAP004, bone alkaline phosphat Janus kinase 1	
Jak2	NM_008413.3	AI504024, C81284, expressed sequence AI Janus kinase 2	
Jak3	NM_010589.6	Jak3, Janus kinase 3, MGD-MRK-16730, MGI Janus kinase 3	
Jup	NM_010593.2	AL022715, AW545708, Ctnng, D930025P04R junction plakoglobin	
Kat2b	NM_020005.3	A930006P13Rik, AI461839, AW536563, expr K(lysine) acetyltransferase 2B	
Kdr	NM_010612.2	fetal liver kinase 1, Flk1, Flk-1, Kdr, kinase kinase insert domain protein recept	
Kif2c	NM_134471.4	4930402F02Rik, EST X83316, Kif2c, kinesin kinesin family member 2C	
Kir3dl1	NM_177749.3	killer cell immunoglobulin-like receptor, killer cell immunoglobulin-like rece	
Kir3dl2	NM_177748.2	killer cell immunoglobulin-like receptor, killer cell immunoglobulin-like rece	
Kit	NM_001122733.1	belly-spot, Bs, CD117, c-KIT, dominant spot KIT proto-oncogene receptor tyrosin	
Klra1	NM_016659.3	killer cell lectin-like receptor, subfamily killer cell lectin-like receptor, subfa	
Klrb1	NM_001099918.1	100043861, 4930431A04Rik, Gm4696, killer killer cell lectin-like receptor subfa	
Klrd1	NM_010654.2	CD94, killer cell lectin-like receptor, subf killer cell lectin-like receptor, subfa	
Klrg1	NM_016970.1	2F1-Ag, killer cell lectin-like receptor sub killer cell lectin-like receptor subfa	
Klrk1	NM_001083322.1	D6H12S2489E, DNA Segment, Chr 6, huma killer cell lectin-like receptor subfa	
Kras	NM_021284.5	AI929937, expressed sequence AI929937, k Kirsten rat sarcoma viral oncogene	
Lag3	NM_008479.2	CD223, Lag3, LAG-3, Ly66, lymphocyte-acti lymphocyte-activation gene 3	
Lair1	NM_001113474.1	5133400011Rik, BB115266, D7Bwg0421e, D leukocyte-associated Ig-like recepto	
Lama1	NM_008480.2	AA408497, expressed sequence AA408497 laminin, alpha 1	
Lamb3	NM_008484.2	Lamb3, laminin, beta 3, MGD-MRK-16713, r laminin, beta 3	
Lamc2	NM_008485.3	AA589349, expressed sequence AA589349 laminin, gamma 2	
Lck	NM_001162433.1	Hck-3, hemopoietic cell kinase 3, Lck, lym lymphocyte protein tyrosine kinase	
Ldha	NM_010699.2	l7R2, lactate dehydrogenase A, lactate de lactate dehydrogenase A	
Ldhb	NM_008492.2	AI790582, expressed sequence AI790582, F lactate dehydrogenase B	
Lgals9	NM_010708.1	AA407335, AI194909, AI265545, expressed :lectin, galactose binding, soluble 9	
Lif	NM_008501.2	leukemia inhibitory factor, Lif, MGD-MRK-1 leukemia inhibitory factor	
Lilra5	NM_001081239.2	EG232801, Gm4878, leukocyte immunoglo leukocyte immunoglobulin-like rece	
Lilrb4a	NM_013532.3	CD85K, glycoprotein 49 B, Gp49b, HM18, IL leukocyte immunoglobulin-like rece	
Loxl2	NM_033325.2	1110004B06Rik, 9430067E15Rik, Loxl2, lysy lysyl oxidase-like 2	
Ltb	NM_008518.2	AI662801, expressed sequence AI662801, L lymphotoxin B	



Ly6c1	NM_010741.3	AA682074,AA959465,expressed sequence lymphocyte antigen 6 complex, locu
Ly6g	XM_909927.2	Gr1,Gr-1,Ly6g,Ly-6G,lymphocyte antigen lymphocyte antigen 6 complex, locu
Ly9	NM_008534.2	AI893573,CD229,expressed sequence AI89 lymphocyte antigen 9
Ly96	NM_016923.2	ESOP-1,Ly96,lymphocyte antigen 96,MD2 lymphocyte antigen 96
Lyz1	NM_013590.3	lysozyme,lysozyme 1,Lyz,Lyz1,Lzp-s,MGD lysozyme 1
Magea1	NM_020015.2	Magea1,Mage-a1,melanoma antigen, fam melanoma antigen, family A, 1
Magea3	NM_020017.2	Magea3,Mage-a3,melanoma antigen, fam melanoma antigen, family A, 3
Magea4	NM_020280.2	Magea4,Mage-a4,melanoma antigen, fam melanoma antigen, family A, 4
Mageb4	NM_001033492.2	CN716893,expressed sequence CN716893 melanoma antigen, family B, 4
Maml2	NM_001013813.3	BC032967,cDNA sequence BC032967,Mam mastermind like transcriptional coa
Map3k12	NM_001163643.1	DLK,Map3k12,MGD-MRK-19592,MGI:10268 mitogen-activated protein kinase ki
Map3k5	NM_008580.4	7420452D20Rik,ASK,ASK1,Map3k5,Mekk5,mitogen-activated protein kinase ki
Map3k7	NM_172688.2	C87327,EST C87327,Map3k7,MGI:1203726 mitogen-activated protein kinase ki
Map3k8	NM_007746.2	cancer Osaka thyroid, oncogene,c-COT,C mitogen-activated protein kinase ki
Mapk10	NM_009158.2	C230008H04Rik,JNK3,Mapk10,MGD-MRK-1 mitogen-activated protein kinase 10
Marco	NM_010766.2	AI323439,expressed sequence AI323439,macrophage receptor with collagen
Mb21d1	NM_173386.4	cGas,E330016A19Rik,Mab-21 domain cont Mab-21 domain containing 1
Mdm2	NM_010786.3	1700007J15Rik,AA415488,expressed sequ transformed mouse 3T3 cell double
Melk	NM_010790.2	AI327312,expressed sequence AI327312,maternal embryonic leucine zipper
Met	NM_008591.2	AI838057,c-Met,expressed sequence AI83 met proto-oncogene
Mfge8	NM_008594.2	AA408458,AI325141,EGF/factor VIII,expr milk fat globule-EGF factor 8 protei
Mfng	NM_008595.2	AW546563,expressed sequence AW546563 MFNG O-fucosylpeptide 3-beta-N-ac
Mgmt	NM_008598.2	Agat,AGT,AI267024,expressed sequence A O-6-methylguanine-DNA methyltran
Mill2	NM_153760.2	MHC I like leukocyte 2,Mill2 MHC I like leukocyte 2
Mki67	NM_001081117.2	antigen identified by monoclonal antiboc antigen identified by monoclonal ar
Mlana	NM_029993.1	A930034P04Rik,Mart1,melan-A,melanom melan-A
Mlh1	NM_026810.2	1110035C23Rik,AI317206,AI325952,AI561 mutL homolog 1
Mmp12	NM_008605.3	AV378681,expressed sequence AV378681, matrix metalloproteinase 12
Mmp13	NM_008607.1	Clg,collagenase-1,Collagenase-3,collager matrix metalloproteinase 13
Mmp1a	NM_032006.3	matrix metalloproteinase 1a (interstitial matrix metalloproteinase 1a (interst
Mmp7	NM_010810.4	MAT,matrix metalloproteinase 7 matrix metalloproteinase 7
Mmp9	NM_013599.2	AW743869,B/MMP9,Clg4b,collagenase IV matrix metalloproteinase 9
Mmrn2	NM_153127.3	AA986839,elastin microfibril interfacer 3 multimerin 2
Mrc1	NM_008625.2	AW259686,CD206,expressed sequence AW mannose receptor, C type 1
Mre11a	NM_018736.2	Mre11a,MRE11A homolog A, double strand MRE11A homolog A, double strand b
Ms4a1	NM_007641.5	AA960661,Cd20,CD20 antigen,expressed membrane-spanning 4-domains, sub
Ms4a2	NM_001276330.1	Fce1b,Fc epsilon high affinity receptor b membrane-spanning 4-domains, sub
Ms4a4a	XM_003086124.1	EG666907,membrane-spanning 4-domain membrane-spanning 4-domains, sub
Ms4a6b	NM_027209.3	1810027D10Rik,membrane-spanning 4-do membrane-spanning 4-domains, sub
Msh2	NM_008628.2	AI788990,expressed sequence AI788990,mutS homolog 2
Msh6	NM_010830.1	AU044881,AW550279,expressed sequence mutS homolog 6
Mtor	NM_020009.2	2610315D21Rik,AI327068,expressed sequ mechanistic target of rapamycin kir
Mx1	NM_010846.1	AI893580,expressed sequence AI893580, MX dynamin-like GTPase 1
Mxi1	NM_001008542.2	bHLHc11,Mad2,MAX interactor 1, dimeriz MAX interactor 1, dimerization prot
Myc	NM_001177354.1	AU016757,bHLHe39,c-myc,expressed seq myelocytomatosis oncogene
Myct1	NM_026793.2	1110020B04Rik,AI225941,AI642973,expre myc target 1
Myd88	NM_010851.2	MGD-MRK-37039,Myd88,myeloid differenti myeloid differentiation primary res
Nbn	NM_013752.3	Nbn,Nbs1,nibrin nibrin
Ncam1	NM_001113204.1	CD56,E-NCAM,MGD-MRK-12786,NCAM,Nca neural cell adhesion molecule 1
Ncr1	NM_010746.3	Ly94,lymphocyte antigen 94,MAR1 (mous natural cytotoxicity triggering recep
Ndufa4l2	NM_001098789.1	BC064011,cDNA sequence BC064011,NAD NADH dehydrogenase (ubiquinone)
Nectin1	NM_021424.2	AI835281,AW549174,Cd111,expressed sec nectin cell adhesion molecule 1
Nectin2	NM_008990.3	AI325026,AI987993,Cd112,expressed sequ nectin cell adhesion molecule 2
Neil1	NM_028347.2	2810450N13Rik,nei endonuclease VIII-like nei endonuclease VIII-like 1 (E. coli)
Nf1	NM_010897.2	AW494271,dark skin 9,Dsk9,expressed ser neurofibromin 1

Nfam1	NM_028728.2	4921501M20Rik,Nfam1,Nfat activating molecule with ITAM
Nfatc2	NM_001136073.2	AI607462,expressed sequence AI607462, nuclear factor of activated T cells,
Nfil3	NM_017373.3	AV225605,E4BP4,expressed sequence AV2 nuclear factor, interleukin 3, regula
Nfkb1	NM_008689.2	MGD-MRK-12829,NF-kappaB,NF kappaB1, nuclear factor of kappa light polype
Nfkb2	NM_019408.3	NF kappaB2,Nfkb2,nuclear factor of kappa light polype
Nfkbia	NM_010907.2	AI462015,expressed sequence AI462015, nuclear factor of kappa light polype
Nfkbie	NM_008690.3	Nfkbie,nuclear factor of kappa light polype
Ngfr	NM_033217.3	LNGFR,MGD-MRK-12842,nerve growth factor receptor (TNFR
Nid2	NM_008695.2	AW547149,entactin 2,entactin-2,expressed sequence nidogen 2
Nkg7	NM_024253.4	2500004F03Rik,MGI:1919560,natural killer cell group 7 sequence
Nlrc5	NM_001033207.3	AI451557,AK220210,cDNA sequence AK22 NLR family, CARD domain containing
Nlrp3	NM_145827.3	Cias1,cold autoinflammatory syndrome 1 NLR family, pyrin domain containing
Nod2	NM_145857.2	Card15,caspase recruitment domain family nucleotide-binding oligomerization
Nos2	NM_010927.3	iNOS,MGD-MRK-12910,MGD-MRK-12913,nitric oxide synthase 2, inducible
Notch1	NM_008714.3	9930111A19Rik,lin-12,MGD-MRK-12915,notch 1
Notch2	NM_010928.1	AI853703,expressed sequence AI853703,notch 2
Nras	NM_010937.2	AV095280,expressed sequence AV095280, neuroblastoma ras oncogene
Nt5e	NM_011851.4	2210401F01Rik,5' nucleotidase,5' nucleotidase, ecto
Oas1a	NM_145211.2	2'-5' oligoadenylate synthetase 1A,L3,Oas 2'-5' oligoadenylate synthetase 1A
Oas2	NM_145227.3	2'-5' oligoadenylate synthetase 2,2'-5' oligoadenylate synthetase 2
Oas3	NM_145226.2	2'-5' oligoadenylate synthetase 3,2'-5' oligoadenylate synthetase 3
Oasl1	NM_145209.3	2'-5' oligoadenylate synthetase-like 1,7532'-5' oligoadenylate synthetase-like
Olfml2b	NM_177068.4	1110018N05Rik,4832415H08Rik,AI467542 olfactomedin-like 2B
Olr1	NM_001301094.1	LOX-1,Olr1,oxidized low density lipoprotein receptor oxidized low density lipoprotein (le
Otoa	NM_139310.1	Otoa,otoancorin otoancorin
P2ry13	NM_028808.3	2010001L06Rik,Gpr86,G protein-coupled purinergic receptor P2Y, G-protein coupled
P4ha1	NM_011030.1	AL022634,expressed sequence AL022634, procollagen-proline, 2-oxoglutarate
P4ha2	NM_001136076.2	AA407196,C76437,expressed sequence AA407196, procollagen-proline, 2-oxoglutarate
Palmd	NM_023245.3	4631423C22Rik,MGI:1913938,Palmd,palm palmdelphin
Parp12	NM_172893.3	AA409132,AA536654,EST AA536654,expressed sequence poly (ADP-ribose) polymerase family
Parp4	NM_001145978.2	ADP-ribosyltransferase (NAD+); poly (ADP-ribose) polymerase family
Parp9	NM_030253.2	AW214463,BC003281,cDNA sequence BC0 poly (ADP-ribose) polymerase family
Pcdhb11	NM_053136.3	Pcdhb11,Pcdhb5E,PcdhbK,protocadherin protocadherin beta 11
Pck2	NM_028994.2	1810010014Rik,9130022B02Rik,MGI:1916 phosphoenolpyruvate carboxykinase
Pcx	NM_008797.3	MGD-MRK-13166,MGD-MRK-13201,Pc,Pcx,pyruvate carboxylase
Pdcd1	NM_008798.1	MGD-MRK-13206,MGD-MRK-29032,PD-1,programmed cell death 1
Pdcd1lg2	NM_021396.2	B7-DC,Btdc,F730015O22Rik,MGI:2442044 programmed cell death 1 ligand 2
Pdgfa	XM_006504659.3	MGD-MRK-13211,Pdgfa,platelet derived growth factor, alpha
Pdgfb	NM_011057.3	MGD-MRK-13212,MGD-MRK-14423,Pdgfb,platelet derived growth factor, beta
Pdgfrb	NM_001146268.1	AI528809,CD140b,expressed sequence AI528809,platelet derived growth factor receptor
Pdk1	NM_172665.5	D530020C15Rik,Pdk1,pyruvate dehydrogenase kinase, isoform 1
Pdzk1ip1	NM_026018.3	0610007F13Rik,2700030M23Rik,AU046042 PDZK1 interacting protein 1
Pecam1	NM_008816.2	C85791,Cd31,CD31 antigen,expressed sequence platelet/endothelial cell adhesion molecule
Pf4	NM_019932.4	chemokine (C-X-C motif) ligand 4,Cxcl4,platelet factor 4
Pfkfb3	NM_133232.2	6-phosphofructo-2-kinase/fructose-2,6-bisphosphate 6-phosphofructo-2-kinase/fructose-
Pfkm	NM_001163487.1	AI131669,expressed sequence AI131669, phosphofructokinase, muscle
Pgpep1	NM_023217.4	2810003H13Rik,Pcp,Pgpep1,PGP-I,pyroglutamyl-peptidase I
Pias4	NM_021501.4	Pias4,PIASy,protein inhibitor of activated protein inhibitor of activated STAT 4
Pik3ca	NM_008839.2	6330412C24Rik,caPI3K,MGI:1917992,p110 phosphatidylinositol-4,5-bisphosphate
Pik3cd	XM_003945690.1	2410099E07Rik,2610208K16Rik,AW545373 phosphatidylinositol-4,5-bisphosphate
Pik3cg	NM_001146200.1	5830428L06Rik,MGI:1923289,p110gamma phosphatidylinositol-4,5-bisphosphate
Pik3r1	NM_001077495.1	AA414921,expressed sequence AA414921, phosphoinositide-3-kinase regulator
Pik3r2	NM_008841.2	p85beta,phosphoinositide-3-kinase regulator
Pik3r5	NM_177320.2	AV230647,expressed sequence AV230647, phosphoinositide-3-kinase regulator
Pirb	NM_011095.2	glycoprotein 91,Gp91,leukocyte immunoglobulin-like receptor B

Pkm	NM_001253883.1	AA414905,AL024370,AL024424,expressed pyruvate kinase, muscle	
Pkp3	NM_019762.2	2310056L12Rik,MGI:1917432,Pkp3,plakophilin 3	
Pla1a	NM_134102.4	AA986889,expressed sequence AA986889 phospholipase A1 member A	
Pla2g2a	NM_001082531.1	EF,Enhancing factor,MGD-MRK-12352,MGI phospholipase A2, group IIA (platelet)	
Plod2	NM_001142916.1	D530025C14Rik,LH2,lysyl hydroxylase 2,procollagen lysine, 2-oxoglutarate 5	
Pms2	NM_008886.2	AW555130,DNA mismatch repair,expressed PMS1 homolog2, mismatch repair sy	
Pnoc	NM_001205075.1	MGD-MRK-32349,N23K,neuropeptide nociceptin	
Pold1	NM_011131.3	125kDa,MGD-MRK-13579,Pold1,polymerase polymerase (DNA directed), delta 1	
Pparg	NM_011146.3	MGD-MRK-13589,Nr1c3,peroxisome proliferator activated receptor	
Ppargc1b	NM_133249.2	4631412G21Rik,peroxisome proliferative peroxisome proliferative activated	
Ppl	NM_008909.2	AW553870,expressed sequence AW553870 periplakin	
Prdm1	NM_007548.3	b2b1765C10,Blimp1,Blimp-1,B lymphocyte PR domain containing 1, with ZNF d	
Prf1	NM_011073.2	MGD-MRK-13251,MGD-MRK-13605,perforin perforin 1 (pore forming protein)	
Prkaa2	NM_178143.1	2310008111Rik,AMPAKalpha2,MGI:1913766 protein kinase, AMP-activated, alph	
Prkacb	NM_011100.3	cAMP-dependent protein kinase C beta,protein kinase, cAMP dependent, ca	
Prkca	NM_011101.3	A1875142,expressed sequence A1875142,protein kinase C, alpha	
Prkx	NM_016979.1	Pkare,Prkx,protein kinase, X-linked protein kinase, X-linked	
Prlr	NM_011169.5	A1987712,expressed sequence A1987712,prolactin receptor	
Prom1	NM_001163577.1	4932416E19Rik,AC133,CD133,MGI:244495 prominin 1	
Prr5	NM_146061.4	Arhgap8,AU043908,C030017C09Rik,C789,proline rich 5 (renal)	
Psmb10	NM_013640.3	Mecl1,Mecl-1,proteasome (prosome, macropain) subunit	
Psmb5	NM_011186.1	proteasome (prosome, macropain) subunit	
Psmb8	NM_010724.2	large multifunctional protease 7,Lmp7,Li proteasome (prosome, macropain) s	
Psmb9	NM_013585.2	large multifunctional protease 2,Lmp2,Li proteasome (prosome, macropain) s	
Ptcd2	NM_026873.2	1190005P08Rik,pentatricopeptide repeat pentatricopeptide repeat domain 2	
Pten	NM_008960.2	2310035O07Rik,A130070J02Rik,A1463227,phosphatase and tensin homolog	
Ptger4	NM_001136079.1	EP4,MGD-MRK-25639,prostaglandin E receptor 4 (subtype	
Ptgs2	NM_011198.4	Cox-2,COX2,cyclooxygenase 2,cyclooxygenase prostaglandin-endoperoxide synthase	
Ptpn11	NM_011202.3	2700084A17Rik,AW536184,expressed sequence protein tyrosine phosphatase, non-r	
Ptprc	NM_001111316.2	B220,Cd45,CD45,CD45 antigen,Ly-5,lymphocyte protein tyrosine phosphatase, recep	
Pvr	NM_027514.2	3830421F03Rik,CD155,D7Ert458e,DNA sensor poliovirus receptor	
Pvrig	XM_011240963.2	Gm36869,poliovirus receptor related immunoglobulin-like receptor related immuno	
Rad50	NM_009012.2	MGD-MRK-38337,MGI:894309,Mrell,Rad50 RAD50 double strand break repair p	
Rad51	NM_011234.4	AV304093,expressed sequence AV304093, RAD51 recombinase	
Rad51c	NM_053269.3	Rad51c,Rad51L2,RAD51 paralog C RAD51 paralog C	
Rasal1	NM_013832.4	MRASAL,Rasal1,RAS protein activator like RAS protein activator like 1 (GAP1 l	
Rasgrf1	NM_011245.2	A1844718,CDC25,CDC25Mm,expressed sequence RAS protein-specific guanine nucleot	
Rb1	NM_009029.2	MGD-MRK-13784,MGD-MRK-13785,pRb,Rb RB transcriptional corepressor 1	
Rbl2	NM_011250.4	MGD-MRK-32125,p130,Rb2,Rbl2,RB transcriptional corepressor like 2	
Rela	NM_009045.4	MGD-MRK-24172,p65,p65 NF kappaB,Rela v-rel reticuloendotheliosis viral onc	
Relb	NM_009046.2	avian reticuloendotheliosis viral (v-rel) ortholog avian reticuloendotheliosis viral (v-	
Reln	NM_011261.2	MGD-MRK-13895,MGD-MRK-23859,reeler,rel	
Ren1	NM_031192.3	D19352,expressed sequence D19352,MGD renin 1 structural	
Rictor	NM_030168.3	4921505C17Rik,6030405M08Rik,AW49249 RPTOR independent companion of M	
Ripk1	NM_009068.3	MGD-MRK-37251,receptor interacting protein receptor (TNFRSF)-interacting serin	
Ripk2	NM_138952.3	2210420D18Rik,CARD3,CARDIAK,CCK,D4B receptor (TNFRSF)-interacting serin	
Ripk3	NM_019955.1	2610528K09Rik,AW107945,expressed sequence receptor-interacting serine-threonin	
Rnls	NM_001146342.2	6530404N21Rik,renalase, FAD-dependent renalase, FAD-dependent amine oxid	
Robo4	NM_028783.2	1200012D01Rik,A1593217,expressed sequence roundabout guidance receptor 4	
Rock1	NM_009071.2	1110055K06Rik,MGD-MRK-36507,MGI:191111 Rho-associated coiled-coil containin	
Ror2	NM_013846.3	neurotrophic tyrosine kinase, receptor related receptor tyrosine kinase-like orphar	
Rorc	NM_011281.2	MGD-MRK-28153,RAR-related orphan receptor RAR-related orphan receptor gamm	
Rpl23	NM_022891.3	2810009A01Rik,MGI:1915154,ribosomal protein L23	
Rpl7a	NM_013721.3	ribosomal protein L7A,Rpl7a,Surf-3,surf ribosomal protein L7A	
Rps6kb1	NM_001114334.1	2610318I15Rik,AA959758,A1256796,A13141 ribosomal protein S6 kinase, polype	

Rptor	NM_028898.2	4932417H02Rik,mKIAA1303,Rap,raptor,re regulatory associated protein of MT
Rrm2	NM_009104.2	AA407299,expressed sequence AA407299,ribonucleotide reductase M2
Rsad2	NM_021384.2	2510004L01Rik,cig5,MGI:1919695,radical radical S-adenosyl methionine doma
Runx3	NM_019732.2	AML2,Cbfa3,core binding factor alpha 3,runt related transcription factor 3
S100a8	NM_013650.2	60B8Ag,AI323541,B8Ag,Caga,calgranulin S100 calcium binding protein A8 (ca
S100a9	NM_009114.2	60B8Ag,AW546964,BEE22,Cagb,calgranuli S100 calcium binding protein A9 (ca
Samsn1	NM_023380.2	4930571B16Rik,Hacs1,RIKEN cDNA 493057,SAM domain, SH3 domain and nucle
Sbno2	NM_183426.1	BC019206,cDNA sequence BC019206,Sbnc strawberry notch 2
Sele	NM_011345.2	CD62E,Elam,endothelial adhesion molecu selectin, endothelial cell
Sell	XM_006496716.1	AI528707,CD62L,expressed sequence AI528707,selectin, lymphocyte
Selp	NM_011347.1	CD62P,granulocyte membrane protein,Gr selectin, platelet
Serpina1a	NM_009243.4	Aat2,Aat-2,alpha-1-antitrypsin 2,MGD-MF serine (or cysteine) peptidase inhib
Serpinb5	NM_009257.3	1110036M19Rik,AI462524,AI646751,expre serine (or cysteine) peptidase inhib
Serpinh1	NM_009825.2	Cbp1,Cbp2,collagen binding protein 1,co serine (or cysteine) peptidase inhib
Sfrp1	NM_013834.2	2210415K03Rik,AW011917,AW107218,AW107218,secreted frizzled-related protein 1
Sfrp4	NM_016687.3	secreted frizzled-related protein 4,Sfrp4 secreted frizzled-related protein 4
Sfxn1	NM_027324.5	2810002O05Rik,A930015P12Rik,MGD-MRK sideroflexin 1
Sgk1	NM_001161849.2	serum/glucocorticoid regulated kinase,serum/glucocorticoid regulated kin
Sh2d1a	NR_132588.1	Duncan disease homolog,SAP,Sh2d1a,SH2 SH2 domain containing 1A
Shc2	NM_001024539.1	MGD-MRK-33870,Shc2,ShcB,SHC (Src hom SHC (Src homology 2 domain contain
Siglec1	NM_011426.3	CD169,MGD-MRK-16453,sialic acid binding sialic acid binding Ig-like lectin 1, s
Siglecf	NM_145581.1	mSiglec-F,sialic acid binding Ig-like lectin sialic acid binding Ig-like lectin F
Sirpa	NM_007547.2	AI835480,Bit,brain immunological-like wisignal-regulatory protein alpha
Slamf7	NM_144539.5	19A,19A24,4930560D03Rik,CS1,novel Ly9 SLAM family member 7
Slc11a1	NM_013612.2	Bcg,BCG resistance,host resistance locus solute carrier family 11 (proton-cou
Slc16a1	NM_009196.4	AL022710,expressed sequence AL022710,solute carrier family 16 (monocarbo
Slc1a5	NM_009201.2	ASCT2,MGD-MRK-32346,Slc1a5,Slc1a7,sol solute carrier family 1 (neutral amio
Slc2a1	NM_011400.3	glucose transporter 1, erythrocyte,Glut1 solute carrier family 2 (facilitated g
Slc7a5	NM_011404.3	D0H16S474E,DNA segment, human S474E solute carrier family 7 (cationic amio
Smad5	NM_008541.2	1110051M15Rik,AI451355,expressed sequ SMAD family member 5
Smap1	NM_028534.3	1700056O10Rik,4921514B13Rik,4921525H small ArfGAP 1
Snai1	NM_011427.2	AI194338,expressed sequence AI194338,snail family zinc finger 1
Snca	NM_009221.2	alpha-Syn,alphaSYN,alpha-synuclein,Sncα synuclein, alpha
Socs1	NM_009896.2	Cish1,Cish7,cytokine inducible SH2-conta suppressor of cytokine signaling 1
Sox10	XM_128139.6	Dom,dominant megacolon,gray tremor,gt SRY (sex determining region Y)-box
Sox11	NM_009234.6	1110038H03Rik,6230403H02Rik,AI836553 SRY (sex determining region Y)-box
Sox2	NM_011443.3	lcc,light coat and circling,MGD-MRK-1449 SRY (sex determining region Y)-box
Spib	NM_019866.1	Spib,Spi-B,Spi-B transcription factor (Spi-Spi-B transcription factor (Spi-1/PU
Spp1	NM_009263.3	2ar,44kDa bone phosphoprotein,AA96053 secreted phosphoprotein 1
Spry4	NM_011898.2	A030006O18Rik,MGI:2444550,RIKEN cDNA sprouty RTK signaling antagonist 4
Srebf1	NM_011480.4	ADD-1,bHLHd1,MGD-MRK-36180,Srebf1,S sterol regulatory element binding tr
Srp54a	NM_011899.4	54kDa,54K subunit of signal recognition p signal recognition particle 54A
Stat1	NM_009283.4	2010005J02Rik,AA408197,expressed sequ signal transducer and activator of tr
Stat2	NM_019963.1	1600010G07Rik,AW496480,expressed seq signal transducer and activator of tr
Stat3	NM_011486.4	1110034C02Rik,Apf,AW109958,expresser signal transducer and activator of tr
Stat4	NM_011487.5	MGD-MRK-23924,signal transducer and ac signal transducer and activator of tr
Stc1	NM_009285.3	MGD-MRK-38175,stanniocalcin 1,Stc1 stanniocalcin 1
Syk	NM_001198977.1	MGD-MRK-16292,spleen tyrosine kinase,S spleen tyrosine kinase
Taf3	NM_027748.3	4933439M23Rik,AW539625,expressed seq TATA-box binding protein associated
Tap1	NM_001161730.1	Abcb2,ATP-binding cassette, sub-family E transporter 1, ATP-binding cassette
Tap2	NM_011530.3	Abcb3,AI462429,ATP-binding cassette, su transporter 2, ATP-binding cassette
Tapbp	NM_009318.2	D17Wsu91e,DNA segment, Chr 17, Wayne TAP binding protein
Tapbpl	NM_145391.2	BC017613,cDNA sequence BC017613,MGC TAP binding protein-like
Tbx21	NM_019507.2	Tbet,T-bet,Tblym,T-box 21,TBT1,Tbx21 T-box 21
Tbxas1	NM_011539.3	CYP5,CYP5A1,MGD-MRK-14734,Tbxas1,th thromboxane A synthase 1, platelet

Tcf3	NM_001164147.1	A1,AA408400,ALF2,AW209082,bHLHb21,E transcription factor 3	
Tcl1	NM_009337.3	T cell lymphoma breakpoint 1,Tcl1	T cell lymphoma breakpoint 1
Tdo2	NM_019911.2	AA407491,chick yellow,chky,expressed se	tryptophan 2,3-dioxygenase
Tgfb1	NM_011577.1	MGD-MRK-15063,MGD-MRK-15064,MGD-M	transforming growth factor, beta 1
Tgfb2	NM_009367.4	BB105277,expressed sequence BB105277,	transforming growth factor, beta 2
Tgfb3	NM_009368.2	MGD-MRK-15066,MGD-MRK-15069,Tgfb3,	transforming growth factor, beta 3
Tgfbr1	NM_009370.2	Alk-5,ALK5,AU017191,expressed sequenc	transforming growth factor, beta re
Tgfbr2	NM_009371.3	1110020H15Rik,AU042018,expressed seq	transforming growth factor, beta re
Thbd	NM_009378.3	AI385582,CD141,expressed sequence AI3	thrombomodulin
Thbs1	NM_011580.4	MGD-MRK-15083,MGD-MRK-15086,tbsp1,	thrombospondin 1
Thy1	NM_009382.3	CD90,MGD-MRK-15100,MGD-MRK-15102,	T thymus cell antigen 1, theta
Ticam1	NM_174989.4	AW046014,AW547018,expressed sequenc	toll-like receptor adaptor molecule
Tie1	NM_011587.2	D430008P04Rik,MGD-MRK-16703,MGI:244	tyrosine kinase with immunoglobuli
Tigit	NM_001146325.1	ENSMUSG00000071552,predicted gene,	E T cell immunoreceptor with Ig and I
Tlr1	NM_030682.1	Tlr1,toll-like receptor 1	toll-like receptor 1
Tlr2	NM_011905.2	Ly105,Tlr2,toll-like receptor 2	toll-like receptor 2
Tlr3	NM_126166.2	AI957183,expressed sequence AI957183,	toll-like receptor 3
Tlr4	NM_021297.2	lipopolysaccharide response,Lps,MGD-MR	toll-like receptor 4
Tlr5	NM_016928.2	Tlr5,toll-like receptor 5	toll-like receptor 5
Tlr7	NM_133211.4	Tlr7,toll-like receptor 7	toll-like receptor 7
Tlr8	NM_133212.2	Tlr8,toll-like receptor 8	toll-like receptor 8
Tlr9	NM_031178.2	Tlr9,toll-like receptor 9	toll-like receptor 9
Tmem140	NM_197986.2	1110007F12Rik,RIKEN cDNA 1110007F12	transmembrane protein 140
Tmem173	NM_028261.1	2610307O08Rik,ERIS,MPYS,RIKEN cDNA 2	transmembrane protein 173
Tnf	NM_013693.2	DIF,MGD-MRK-15151,MGD-MRK-28090,Tnf	tumor necrosis factor
Tnfaip3	NM_001166402.1	A20,Tnfaip3,Tnfp3,tumor necrosis facto	tumor necrosis factor, alpha-induce
Tnfaip6	NM_009398.2	Tnfaip6,Tnfp6,Tsg6,TSG-6,tumor necrosi	tumor necrosis factor alpha inducec
Tnfrsf10b	NM_020275.3	DR5,KILLER,Killer/Dr5,Ly98,Tnfrsf10b,	TR tumor necrosis factor receptor supe
Tnfrsf11a	NM_009399.3	MGI:1194917,Rank,receptor activator of	tumor necrosis factor receptor supe
Tnfrsf11b	NM_008764.3	MGD-MRK-39586,OCIF,Opg,OPG,osteoclas	tumor necrosis factor receptor supe
Tnfrsf14	NM_178931.2	Atar,HveA,Hvem,Tnfrsf14,tumor necrosis	tumor necrosis factor receptor supe
Tnfrsf17	NM_011608.1	BCM,BCMA,Tnfrsf13,Tnfrsf13a,Tnfrsf17,	tumor necrosis factor receptor supe
Tnfrsf18	NM_009400.2	Gitr,glucocorticoid-induced tumor necros	tumor necrosis factor receptor supe
Tnfrsf1a	NM_011609.2	CD120a,MGD-MRK-15155,MGD-MRK-1515	tumor necrosis factor receptor supe
Tnfrsf1b	NM_011610.3	CD120b,MGD-MRK-15154,MGD-MRK-1515	tumor necrosis factor receptor supe
Tnfrsf25	NM_033042.3	APO-3,DDR3,DR3,LARD,Tnfrsf12,Tnfrsf25	tumor necrosis factor receptor supe
Tnfrsf4	NM_011659.2	ACT35,CD134,MGD-MRK-13094,MGD-MRK	tumor necrosis factor receptor supe
Tnfrsf8	NM_009401.2	Cd30,CD30,CD30 antigen,MGD-MRK-1670	tumor necrosis factor receptor supe
Tnfrsf9	NM_001077508.1	4-1BB,A930040I11Rik,AA408498,AI325004	tumor necrosis factor receptor supe
Tnfsf10	NM_009425.2	A330042I21Rik,AI448571,APO-2L,express	tumor necrosis factor (ligand) super
Tnfsf12	NM_011614.3	APO3L,DR3L,TNF-related weak inducer o	tumor necrosis factor (ligand) super
Tnfsf13	NM_023517.2	2310026N09Rik,APRIL,RIKEN cDNA 23100	tumor necrosis factor (ligand) super
Tnfsf13b	NM_033622.1	BAFF,BLyS,D8ErtD387e,DNA segment,	Chr tumor necrosis factor (ligand) super
Tnfsf18	NM_183391.3	Gitrl,GITR ligand,Tnfsf18,tumor necrosis	tumor necrosis factor (ligand) super
Tnfsf4	NM_009452.2	Ath1,Ath-1,atherosclerosis 1,CD134L,gp3	tumor necrosis factor (ligand) super
Tnfsf8	NM_009403.3	CD153,CD30 antigen ligand,Cd30L,Cd30L,	tumor necrosis factor (ligand) super
Tnfsf9	NM_009404.3	4-1BBL,4-1BB-L,4-1BB ligand,AI848817,	C tumor necrosis factor (ligand) super
Tnks	NM_175091.3	4930554K12Rik,AI662855,C86528,D13007	tankyrase, TRF1-interacting ankyrin
Tpi1	NM_009415.2	AI255506,expressed sequence AI255506,	triosephosphate isomerase 1
Tpm1	NM_024427.4	AA986836,AI854628,alpha-TM,alpha trop	tropomyosin 1, alpha
Tpsab1	NM_031187.4	mast cell protease 7,Mcp-7,Mcpt7,MGD-M	tryptase alpha/beta 1
Traf1	NM_009421.4	4732496E14Rik,MGD-MRK-18657,MGI:244	TNF receptor-associated factor 1
Trat1	NM_198297.3	C030046M14Rik,RIKEN cDNA C030046M14	T cell receptor associated transmem
Trem1	NM_021406.5	Trem1,triggering receptor expressed on r	triggering receptor expressed on my
Trem2	NM_031254.2	MGI:1932924,MGI:1932925,Trem2,Trem2	triggering receptor expressed on my

Trim21	NM_001082552.1	MGD-MRK-35115,Ro52,Sjogren syndrome tripartite motif-containing 21
Trp53	NM_011640.1	MGD-MRK-15247,MGI:3584375,MGI:35843 transformation related protein 53
Tslp	NM_021367.1	thymic stromal lymphopoietin, Tslp thymic stromal lymphopoietin
Ttc30a1	NM_030188.3	4930506L13Rik,RIKEN cDNA 4930506L13 g tetratricopeptide repeat domain 30
Twf1	NM_008971.4	A6,actin monomer-binding protein,prote twinfilin actin binding protein 1
Twist1	NM_011658.2	AA960487,bHLHa38,charlie chaplin,expre twist basic helix-loop-helix transcrip
Twist2	NM_007855.2	bHLHa39,dermis expressed 1,Dermo1,MG twist basic helix-loop-helix transcrip
Tymp	NM_138302.1	2900072D10Rik,Ecgf1,endothelial cell grc thymidine phosphorylase
Tyms	NM_021288.3	MGD-MRK-15313,thymidylate synthase,Ts thymidylate synthase
Uba7	NM_023738.4	1300004C08Rik,MGI:1921403,RIKEN cDNA ubiquitin-like modifier activating er
Ube2c	NM_026785.2	1110015A16Rik,D2Ertdd695e,DNA segment ubiquitin-conjugating enzyme E2C
Ube2t	NM_001278115.1	2700084L22Rik,C80607,expressed sequen ubiquitin-conjugating enzyme E2T
Ulbp1	NM_029975.2	A430108B07Rik,MULT1,RIKEN cDNA A4301 UL16 binding protein 1
Vcam1	NM_011693.3	CD106,MGD-MRK-15384,MGD-MRK-15385, vascular cell adhesion molecule 1
Vcan	NM_001081249.1	5430420N07Rik,chondroitin sulfate prote versican
Vegfa	NM_001025250.3	MGD-MRK-24046,vascular endothelial gro vascular endothelial growth factor A
Vegfb	NM_011697.3	MGD-MRK-33890,vascular endothelial gro vascular endothelial growth factor B
Vegfc	NM_009506.2	AW228853,expressed sequence AW228853:vascular endothelial growth factor C
Vhl	NM_009507.3	MGD-MRK-24093,pVHL,Vhl,Vhlh,von Hipp von Hippel-Lindau tumor suppressor
Vsir	NM_001159572.1	4632428N05Rik,Dies1,PD-1H,RIKEN cDNA V-set immunoregulatory receptor
Vtcn1	NM_178594.3	B7-H4,B7x,BC032925,cDNA sequence BC0 V-set domain containing T cell activ
Wdr76	NM_030234.2	5830411K18Rik,AA517836,expressed seqe WD repeat domain 76
Wnt10a	NM_009518.1	MGD-MRK-37108,wingless-type MMTV inte wingless-type MMTV integration site
Wnt11	NM_001285792.1	MGD-MRK-18782,wingless-type MMTV inte wingless-type MMTV integration site
Wnt2	NM_023653.4	2610510E18Rik,Int1l1,Int-1-related prote wingless-type MMTV integration site
Wnt2b	NM_009520.3	wingless related MMTV integration site 1:wingless-type MMTV integration site
Wnt3a	NM_009522.2	MGD-MRK-15417,MGD-MRK-15441,MGD-M wingless-type MMTV integration site
Wnt4	NM_009523.2	MGD-MRK-15442,MGD-MRK-15452,wingles wingless-type MMTV integration site
Wnt5a	NM_009524.2	8030457G12Rik,MGD-MRK-15443,MGD-MR wingless-type MMTV integration site
Wnt5b	NM_009525.3	AW545702,expressed sequence AW545702 wingless-type MMTV integration site
Wnt7b	NM_009528.2	MGD-MRK-15447,MGD-MRK-15457,wingles wingless-type MMTV integration site
Xcl1	NM_008510.1	AI661682,ATAC,chemokine (C motif) ligar chemokine (C motif) ligand 1
Zap70	NM_009539.3	AI327364,expressed sequence AI327364,λ zeta-chain (TCR) associated protein
Zc3h12a	NM_153159.2	BC036563,cDNA sequence BC036563,Mcpizinc finger CCCH type containing 12
Zeb1	NM_011546.3	3110032K11Rik,AREB6,[delta]EF1,MEB1,λ zinc finger E-box binding homeobox
Zeb2	NM_015753.4	9130203F04Rik,D130016B08Rik,MGI:2442 zinc finger E-box binding homeobox
Abcf1	NM_013854.1	Abc50,Abcf1,ATP-binding cassette, sub-f:ATP-binding cassette, sub-family F (
Dnajc14	NM_028873.3	5730551F12Rik,Dnajc14,DnaJ heat shock DnaJ heat shock protein family (Hsp
Ercc3	NM_133658.1	Ercc3,Ercc-3,excision repair 3,excision re excision repair cross-complementin
G6pdx	NM_008062.2	G28A,G6pd,G6pdx,glucose-6-phosphate c glucose-6-phosphate dehydrogenase
Gusb	NM_010368.1	adipose storage deficiency,AI747421,asd, glucuronidase, beta
Mrpl19	NM_026490.2	9030416F12Rik,D6Ertdd157e,DNA segment mitochondrial ribosomal protein L19
Nrde2	NM_183155.3	6720454P05Rik,BC002230,cDNA sequence nrde-2 necessary for RNA interferen
Oaz1	NM_008753.4	Antizyme,antizyme 1,AZ1,AZ-1,MGD-MRK ornithine decarboxylase antizyme 1
Polr2a	NM_009089.2	220kDa,MGD-MRK-14111,Polr2a,polymera polymerase (RNA) II (DNA directed)
Psmc4	NM_011874.2	CAR interacting protein 21,CIP21,MIP224 proteasome (prosome, macropain) 2
Pum1	NM_001159605.1	AA517475,expressed sequence AA517475.pumilio RNA-binding family member
Sdha	NM_023281.1	2310034D06Rik,C81073,expressed sequer succinate dehydrogenase complex,
Sf3a1	NM_026175.5	1200014H24Rik,5930416L09Rik,AI159724,splicing factor 3a, subunit 1
Stk11ip	NM_027886.3	1200014D22Rik,BB131189,expressed seqe serine/threonine kinase 11 interact
Tbc1d10b	NM_144522.5	1110003P22Rik,C87963,expressed sequer TBC1 domain family, member 10b
Tbp	NM_013684.3	general transcription factor IID,Gtf2d,MC TATA box binding protein
Tfrc	NM_011638.4	2610028K12Rik,AI195355,AI426448,AU01 transferrin receptor
Tlk2	NM_011903.3	4933403M19Rik,MGI:1918299,PKUalpha,p tousled-like kinase 2 (Arabidopsis)
Tmub2	NM_028076.2	2010008E23Rik,RIKEN cDNA 2010008E23 g transmembrane and ubiquitin-like c

