

nCounter® Mouse AutoImmune Profiling Panel - Gene and Probe Details

Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or Isoform Information
Ace	NM_009598.1	AW208573,CD143,expressed sequence AW208573,MGD-MRK-1032,MGI:2144508	angiotensin I converting enzyme (peptidyl-dipeptidase A) 1	
Acin1	NM_001085472.2	261003619RIK,2610510L13RIK,Acinus,apoptotic chromatin condensation inducer in the nucleus,C79325,expressed sequence C79325,MGI:1913562,MGI:1919776,MGI:2145862,mKIAA0670,RIKEN cDNA 261003619 gene,RIKEN cDNA 2610510L13 gene	apoptotic chromatin condensation inducer 1	
Acp5	NM_001102405.1	MGD-MRK-1052,TRACP,TRAP	acid phosphatase 5, tartrate resistant	
Actr1b	NM_146107.2	231006623RIK,AA960180,AI851923,Arp1b,expressed sequence AA960180,expressed sequence AI851923,MGI:2138136,MGI:2138359,RIKEN cDNA 231006623 gene	ARP1 actin-related protein 1B, centractin beta	
Adam17	NM_001277266.1	CD156b,Tace,tumor necrosis factor-alpha converting enzyme ADAR1,Adar1p110,Adar1p150,AV242451,expressed sequence AV242451,MGI:2139942,mZaADAR	a disintegrin and metalloproteinase domain 17	
Adar	NM_001038587.3	AV242451,MGI:2139942,mZaADAR	adenosine deaminase, RNA-specific	
Adora2a	NM_009630.2	A2AAR,A2aR,A2a, Rs,AA2AR,MGD-MRK-16163	adenosine A2a receptor	
Ager	NM_007425.2	RAGE	advanced glycosylation end product-specific receptor	
Agtr	NM_007428.3	AI265500,angiotensin precursor,Aogen,expressed sequence AI265500,MGD-MRK-1192,MGI:2142488,SerpinA8	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	
Ahr	NM_013464.4	Ah,Ahh,Ahre,aromatic hydrocarbon responsiveness,aryl hydrocarbon hydroxylase,bHLHe76,dioxin receptor,In,inflammatory reactivity,MGD-MRK-11402,MGD-MRK-1198,MGD-MRK-1219,MGD-MRK-32082,MGI:895073	aryl-hydrocarbon receptor	
Aicda	NM_009645.2	activation induced deaminase,Aid	activation-induced cytidine deaminase	
Aim2	NM_001013779.2	gene model 1313, (NCBI),Gm1313,IFI210,LOC383619	absent in melanoma 2	
Aire	NM_009646.1		autoimmune regulator (autoimmune polyendocrinopathy candidiasis ectodermal dystrophy)	
Akt1	NM_001165894.1	Akt,MGD-MRK-1257,PKB,PKB/Akt,PKBalpha	thymoma viral proto-oncogene 1	
Akt2	NM_001110208.1	2410016A19RIK,AW554154,expressed sequence AW554154,MGD-MRK-28173,MGI:1923730,MGI:2142261,PKB,PKBbeta,RIKEN cDNA 2410016A19 gene	thymoma viral proto-oncogene 2	
Akt3	NM_011785.3	A1851531,D930002M15RIK,expressed sequence A1851531,MGI:2138357,MGI:3628555,neuroscience mutagenesis facility, 350,Nmf350,PKB gamma,RIKEN cDNA D930002M15 gene	thymoma viral proto-oncogene 3	
Alas2	NM_009653.3	5-aminolevulinic synthase,ALAS,Alas-2,ALASE,ALAS-E,erythroid-specific ALAS,MGD-MRK-1269,MGD-MRK-1271	aminolevulinic acid synthase 2, erythroid	
Alox15	NM_009660.3	12-LO,ALox12,arachidonate 12-lipoxygenase, leukocyte,L-12LO,MGD-MRK-1284	arachidonate 15-lipoxygenase	
Alox5	NM_009662.2	5LO,5-LO,5-LOX,5LX,AI850497,expressed sequence AI850497,MGD-MRK-1286,MGI:2141502	arachidonate 5-lipoxygenase	
Angpt1	NM_009640.3	1110046021RIK,ang1,Ang-1,Angiopoietin-1,MGD-MRK-37492,MGI:1916073,RIKEN cDNA 1110046021 gene	angiopoietin 1	
Anxa1	NM_010730.2	Anx-1,Anx-A1,C430014K04RIK,lipocortin 1,Lpc1,Lpc-1,MGD-MRK-11869,MGD-MRK-11870,MGI:2442613,RIKEN cDNA C430014K04 gene	annexin A1	
Ap1b1	NM_007454.3	adaptn beta 1,Adtb1,b2b1660Clo,beta-prime adaptin,MGI:5433318,Mutant line 1660	adaptor protein complex AP-1, beta 1 subunit	
Ap1m1	NM_007456.4	AA408894,Adtm1A,AP47,clathrin medium chain-associated protein,Cltm,expressed sequence AA408894,[m]1A,MGD-MRK-19683,MGI:2142408,mu1A	adaptor-related protein complex AP-1, mu subunit 1	
Ap1s1	NM_007457.2	AP19	adaptor protein complex AP-1, sigma 1	
Ap2a1	NM_001077264.1	adaptn, alpha A,Adtaa,MGD-MRK-18750	adaptor-related protein complex 2, alpha 1 subunit	
Ap2a2	NM_007459.3	2410074K14RIK,adaptn, alpha B,Adtab,AFO06990,alpha-adaptin C,alpha-C adaptn,AW146353,C78001,EST AFO06990,expressed sequence AW146353,expressed sequence C78001,L25,MGD-MRK-18749,MGI:1354776,MGI:1920922,MGI:2142215,MGI:2142324,RIKEN cDNA 2410074K14 gene	adaptor-related protein complex 2, alpha 2 subunit	
Ap2m1	NM_009679.2	clathrin-associated AP-2	adaptor-related protein complex 2, mu 1 subunit	
Apc	NM_007462.3	AI047805,AU020952,AW124434,CC1,expressed sequence AI047805,expressed sequence AU020952,expressed sequence AW124434,MGD-MRK-1347,MGD-MRK-16245,MGI:2147196,MGI:2147309,MGI:2147352,Min,multiple intestinal neoplasia	adenomatosis polyposis coli	
App	NM_007471.2	Abeta,Adap,AL024401,Alzheimer disease amyloid beta protein,appican,betaAPP,cerebrovascular amyloid peptide,Cvap,E030013M08RIK,expressed sequence AL024401,MGD-MRK-1105,MGD-MRK-1378,MGD-MRK-2255,MGI:2146529,MGI:2442007,protease nexin II,RIKEN cDNA E030013M08 gene	amyloid beta (A4) precursor protein	
Aqp4	NM_009700.2	aquaporin-4,MGD-MRK-35854	aquaporin 4	
Aqp9	NM_001271843.1	1700020I22RIK,AI266899,expressed sequence AI266899,MGI:1919512,MGI:2143005,RIKEN cDNA 1700020I22 gene	aquaporin 9	
Arf1	NM_007476.3	MGD-MRK-16195	ADP-ribosylation factor 1	
Arhgef1	NM_001130150.1	lbc2,Lsc,lymphoid blast crisis like 2,MGD-MRK-37468,MGI:108425	Rho guanine nucleotide exchange factor (GEF) 1	
Arrb2	NM_145429.4	AI326910,Arr3,arrestin 3,AW122872,beta arr 2,beta-arrestin2,beta-arrestin-2,expressed sequence AI326910,expressed sequence AW122872,MGD-MRK-16248,MGI:2144136,MGI:2144500	arrestin, beta 2	
Atf2	NM_001284371.1	ATF-2,cAMP responsive element binding protein 2,Creb2,CRE-BP,D130078H02RIK,D18875,expressed sequence D18875,MGD-MRK-23723,MGD-MRK-38394,MGI:2139537,MGI:2441951,MGI:2678345,mXBP,RIKEN cDNA D130078H02 gene,Tg(Gzma-Klra1)7Wum,transgene insertion 7, Washington University School of Medicine	activating transcription factor 2	
Atg101	NM_026566.2	9430023L20RIK,AA407441,AU022967,expressed sequence AA407441,expressed sequence AU022967,MGI:2145889,MGI:2146146,RIKEN cDNA 9430023L20 gene	autophagy related 101	
Atg4b	NM_174874.3	2510009N07RIK,APG4 (ATG4) autophagy-related homolog B (S. cerevisiae),Apg4b,autophagin 1,AWD48066,expressed sequence AWD48066,MGI:2138547,RIKEN cDNA 2510009N07 gene	autophagy related 4B, cysteine peptidase	
Atg5	NM_001314013.1	2010107M05RIK,3110067M24RIK,Apg5,autophagy 5-like (S. cerevisiae),AW319544,C88337,expressed sequence AW319544,expressed sequence C88337,MGI:1277148,MGI:1917267,MGI:1920439,MGI:2143833,MGI:2143950,paddy,Paddy,RIKEN cDNA 2010107M05 gene,RIKEN cDNA 3110067M24 gene	autophagy related 5	
Atg9a	NM_001003917.3	APG9 autophagy 9-like 1 (S. cerevisiae),Apg9I1,AU019532,expressed sequence AU019532	autophagy related 9A	
Atm	NM_007499.2	AI256621,C030026E19RIK,expressed sequence AI256621,MGD-MRK-35663,MGI:1924666,MGI:2143000,RIKEN cDNA C030026E19 gene	ataxia telangiectasia mutated	
Atp6v0a1	NM_001243050.1	AA959968,Atp6v1,Atp6v1a,ATPase, H+ transporting, lysosomal (vacuolar proton pump) noncatalytic accessory protein 1 (118/160 kDa),ATPase, H+ transporting, lysosomal (vacuolar proton pump) noncatalytic accessory protein 1A (110/160 kDa),expressed sequence AA959968,MGD-MRK-15405,MGD-MRK-15407,MGD-MRK-24167,MGI:2144053,vacuolar (endomembrane) proton pump subunit 1, (116 kDa),V-ATPase a1,Vpp1,Vpp-1	ATPase, H+ transporting, lysosomal V0 subunit A1	
Atp6v0c	NM_009729.3	36468,MGI:107616,PL16,proteolipid	ATPase, H+ transporting, lysosomal V0 subunit C	
Atp6v1c2	NM_001159632.1	1110038G14RIK,RIKEN cDNA 1110038G14 gene	ATPase, H+ transporting, lysosomal V1 subunit C2	

Atp6v1h	XM_006495434.2	0710001F19RIK,AU022349,expressed sequence AU022349,MGI:2138471,RIKEN cDNA 0710001F19 gene	ATPase, H+ transporting, lysosomal V1 subunit H
Bad	NM_007522.3	A1325008,Bbc2,expressed sequence A1325008,MGI:2147509	BCL2-associated agonist of cell death
Bax	NM_007527.3	MGD-MRK-16487	BCL2-associated X protein
Bcl10	NM_009740.1	A1132454,BCL-10,C81403,cE10,expressed sequence A1132454,expressed sequence C81403,mE10,MGI:2139636,MGI:2140085	B cell leukemia/lymphoma 10
Bcl2	NM_009741.3	AW986256,Bcl-2,C430015F12RIK,D630044D05RIK,D830018M01RIK,expressed sequence AW986256,MGD-MRK-1524,MGD-MRK-1526,MGI:2138629,MGI:2442315,MGI:2444619,MGI:2444682,RIKEN cDNA C430015F12 gene,RIKEN cDNA D630044D05 gene,RIKEN cDNA D830018M01 gene	B cell leukemia/lymphoma 2
Bcl2a1a	NM_009742.3	A1,BB218357,Hbpa1,hematopoietic Bcl-2-related protein A1,MGD-MRK-18735,MGD-MRK-19590,MGI:2143372	B cell leukemia/lymphoma 2 related protein A1a
Bcl2l1	NM_009743.4	bcl-x,BclX,Bcl-XL,Bcl(X)l,Bcl-Xs,MGD-MRK-1527	BCL2-like 1
Bcl6	NM_009744.3	B-cell leukemia/lymphoma 5,Bcl5,MGD-MRK-35648,MGI:1277984	B cell leukemia/lymphoma 6
Bclaf1	NM_153787.2	2610102K23RIK,2700025J07RIK,2810454G14RIK,5730534O06RIK,AI450190,AW556225,expressed sequence AI450190,expressed sequence AW556225,MGI:1914501,MGI:1917913,MGI:1919817,MGI:2143607,MGI:2143868,mKIAA0164,RIKEN cDNA 2610102K23 gene,RIKEN cDNA 2700025J07 gene,RIKEN cDNA 2810454G14 gene,RIKEN cDNA 5730534O06 gene	BCL2-associated transcription factor 1
Bdnf	NM_007540.4	MGD-MRK-1534	brain derived neurotrophic factor
Birc2	NM_007465.2	Apl1,apoptosis inhibitor 2,AW146227,C330006D17RIK,cIAP1,cIAP-1,expressed sequence AW146227,HIAP1,IAP1,mclIAP1,MGI:1924866,MGI:2143294,MIAP1,MIH8,RIKEN cDNA C330006D17 gene	baculoviral IAP repeat-containing 2
Birc3	NM_007464.3	Apl2,apoptosis inhibitor 1,AW107670,cIAP2,cIAP-2,expressed sequence AW107670,HIAP2,IAP2,MGI:2143290,MIAP2,MIHC,RNF49	baculoviral IAP repeat-containing 3
Blk	NM_007549.2	MGD-MRK-1577	B lymphoid kinase
Blnk	NM_008528.4	BASH,Bca,BCA,B cell activation-related gene,Ly57,Ly-57,lymphocyte antigen 57,MGD-MRK-11999,MGD-MRK-12042,MGI:1278314,SLP-65	B cell linker
Bmp8a	NM_001256019.1	Bmp7r1,bone morphogenetic protein 7, related 1,MGD-MRK-18614,MGD-MRK-25946,OP2,osteogenic protein 2	bone morphogenetic protein 8a
Bmper	NM_028472.1	3110056H04RIK,Crim3,crossveinless-2,Cv2,CV-2,RIKEN cDNA 3110056H04 gene	BMP-binding endothelial regulator
Braf	NM_139294.5	9930012E13RIK,AA120551,AA387315,AA473386,Braf2,Braf-2,Braf transforming gene 2,C87398,D6Ert631e,DNA segment, Chr 6, ERATO Doi 631, expressed,expressed sequence AA120551,expressed sequence AA387315,expressed sequence AA473386,expressed sequence C87398,MGD-MRK-1618,MGD-MRK-1619,MGD-MRK-1621,MGI:1277149,MGI:2141786,MGI:2442536,MGI:3034546,MGI:3034892,MGI:3034940,RIKEN cDNA 9930012E13 gene	Braf transforming gene
Brwd1	NM_001103179.1	5330419I02RIK,D530019K20RIK,G1-403-16,MGI:1926107,MGI:2442152,MGI:3512790,repPro5, reproductive mutant 5, JAX Reproductive Mutagenesis Program,RIKEN cDNA 5330419I02 gene,RIKEN cDNA D530019K20 gene,Wdr9,WD repeat domain 9	bromodomain and WD repeat domain containing 1
Bst2	NM_198095.2	2310015I10RIK,Bst-2,C87040,expressed sequence C87040,GREG,MGI:2142879,RIKEN cDNA 2310015I10 gene	bone marrow stromal cell antigen 2
Btk	NM_013482.2	A1528679,Bruton's tyrosine kinase,expressed sequence A1528679,MGD-MRK-15473,MGD-MRK-1683,MGI:2147899,xid,X-linked immune deficiency	Bruton agammaglobulinemia tyrosine kinase
Btla	NM_001037719.2		B and T lymphocyte associated
C1qa	NM_007572.2	A1255395,C1q,expressed sequence A1255395,MGD-MRK-1696,MGI:2140213	complement component 1, q subcomponent, alpha polypeptide
C1qb	NM_009777.2	MGD-MRK-1697	complement component 1, q subcomponent, beta polypeptide
C1ra	NM_023143.3	A1132558,expressed sequence A1132558,mC1rA,MGI:2141380,MGI:3719032	complement component 1, r subcomponent A
C1s1	NM_144938.2	AA959438,A1255193,A1327365,C1s,complement component 1, s subcomponent,EST A1255193,expressed sequence AA959438,expressed sequence A1327365,MGI:1353567,MGI:2141372,MGI:2141399	complement component 1, s subcomponent 1
C2	NM_013484.2	classical-complement pathway C3/C5 convertase,MGD-MRK-1699	complement component 2 (within H-2S)
C3	XM_011246258.1	acylation stimulating protein,A1255234,complement factor 3,expressed sequence A1255234,MGD-MRK-1700,MGI:2146809,Plp	complement component 3
C4a	NM_011413.2	MGD-MRK-14443,sex-limited protein,Slp	complement component 4A (Rodgers blood group)
C5aR1	NM_007577.3	C5aR,C5r1,Cd88,complement component 5, receptor 1,D7Msu1,DNA segment, Chr 7, Michigan State University 1,MGD-MRK-1710,MGI:2180152	complement component 5a receptor 1
C6	NM_016704.2	AW111623,expressed sequence AW111623,MGD-MRK-1711,MGI:2146192	complement component 6
C7	XM_356827.7	gene model 1238, (NCBI),Gm1238,LOC383055,MGD-MRK-1713,MGI:2686084	complement component 7
C8a	NM_146148.2		complement component 8, alpha polypeptide
C8b	NM_133882.2	4930439B20RIK,A1595927,expressed sequence A1595927,MGD-MRK-1714,MGI:1921221,MGI:2140338,RIKEN cDNA 4930439B20 gene	complement component 8, beta polypeptide
C8g	NM_027062.1	1700013L23RIK,MGD-MRK-1715,MGI:1916629,RIKEN cDNA 1700013L23 gene	complement component 8, gamma polypeptide
C9	NM_013485.1		complement component 9
Camk2d	NM_001025439.1	2810011D23RIK,8030469K03RIK,CaMK II,MGC:60852,MGI:1923610,MGI:1924420,RIKEN cDNA 2810011D23 gene,RIKEN cDNA 8030469K03 gene	calcium/calmodulin-dependent protein kinase II, delta
Camk2g	NM_001039138.1	5930429P18RIK,Ca2+/calmodulin-dependent protein kinase II,calcium/calmodulin dependent protein kinase gamma,Camk2, CaMK II,MGD-MRK-1746,MGI:2442091,RIKEN cDNA 5930429P18 gene	calcium/calmodulin-dependent protein kinase II gamma
Camp	NM_009921.2	CAP18,cathelin-like protein,cathelin related antimicrobial peptide,Cnlp,Cramp,FALL39,MCLP,MGD-MRK-37487,MGI:892985	cathelicidin antimicrobial peptide
Capn1	NM_001110504.1	calpain 1, large subunit,Capa1,Capa-1,MGD-MRK-1750,MGD-MRK-1754,mu-calpain	calpain 1
Card11	NM_175362.2	0610008L17RIK,2410011D02RIK,BIMP3,CARMA1,MGI:1915575,RIKEN cDNA 0610008L17 gene,RIKEN cDNA 2410011D02 gene	caspace recruitment domain family, member 11
Card9	NM_001037747.1	gene model 782, (NCBI),Gm782,LOC332579	caspace recruitment domain family, member 9
Casp1	NM_009807.2	Caspase-1,ICE1,IL1b,interleukin 1 beta convertase,interleukin 1 beta-converting enzyme,MGD-MRK-11368	caspace 1
Casp3	NM_009810.2	A830040C14RIK,AC-3,Apopain,Caspase-3,CC3,PPP32,melody,MGD-MRK-36315,MGI:2442726,MGI:3717434,mldy,RIKEN cDNA A830040C14 gene,Yama	caspace 3
Casp4	NM_007609.2	capase 11, apoptosis-related cysteine protease,Casp11,Caspase-11,caspase 11, apoptosis-related cysteine peptidase,ich-3,MGD-MRK-36276	caspace 4, apoptosis-related cysteine peptidase
Casp8	NM_009812.2	Caspase-8,FLICE,MACH,Mch5	caspace 8
Cbl	NM_007619.2	4732447J05RIK,Casitas B-lineage lymphoma 2,Cbl-2,C-Cbl,MGD-MRK-1779,MGD-MRK-1780,MGD-MRK-1782,MGI:2443367,RIKEN cDNA 4732447J05 gene	Casitas B-lineage lymphoma
Ccl19	NM_011888.2	CKb11,exodus-3,Scya19,small inducible cytokine A19	chemokine (C-C motif) ligand 19
Ccl2	NM_011333.3	A1323594,expressed sequence A1323594,HC11,MCAF,MCP1,MCP-1,MGD-MRK-14333,MGD-MRK-14413,MGI:2144120,monocyte chemoattractant protein-1,monocyte chemoattractant protein,Scya2,Sigle,small inducible cytokine A2,small inducible gene JE,SMC-CF	chemokine (C-C motif) ligand 2
Ccl20	NM_016960.1	CKb4,exodus-1,MIP-3[alpha],MIP3A,MIP-3A,Scya20,small inducible cytokine subfamily A20,ST38	chemokine (C-C motif) ligand 20

Ccl21a	NM_011124.4	6CKBAC2,6CKine,ALP,AW987545,Ckb9,Exodus-2,expressed sequence AW987545,MGI:1270157,MGI:2140627,Soya21,Soya21b,SLC,small inducible cytokine A21,small inducible cytokine A21b (leucine),small inducible cytokine A21b (leucine),Tc4a	chemokine (C-C motif) ligand 21A (serine)	Gm10591 (NM_001193668), Gm13304 (NM_001193666), Ccl21c (NM_023052), Ccl21b (NM_011335), Gm1987 (NM_001193667), Gm21541 (NM_001270360)
Ccl3	NM_011337.1	A1323804,expressed sequence A1323804,G0S19-1,LD78alpha,macrophage inflammatory protein-1alpha,macrophage inflammatory protein-1 alpha,MGD-MRK-12241,MGD-MRK-14334,MGI:2144123,Mip1a,MIP1-(a),MIP-1alpha,MIP-1 alpha,MIP1-alpha,Soya3,small inducible cytokine A3	chemokine (C-C motif) ligand 3	
Ccl4	NM_013652.1	Act-2,AT744.1,macrophage inflammatory protein-1 beta,MGD-MRK-12242,MGD-MRK-14335,Mip1b,MIP-1B,MIP-1 beta,Soya4,small inducible cytokine A4	chemokine (C-C motif) ligand 4	
Ccl5	NM_013653.1	MGD-MRK-14336,MuRantes,RANTES,Soya5,SISd,small inducible cytokine A5,TCP228	chemokine (C-C motif) ligand 5	
Ccl7	NM_013654.3	fic,marc,mcp3,MCP-3,MGD-MRK-16289,Soya7,small inducible cytokine A7 1810063B20RIK,HCl4,MCP-2,MGD-MRK-18704,MGI:1913124,MGI:1917105,RIKEN cDNA 1810063B20	chemokine (C-C motif) ligand 7	
Ccl8	NM_021443.2	gene,Soya8,small inducible cytokine A8	chemokine (C-C motif) ligand 8	
Ccr1	NM_009912.4	chemokine (C-C) receptor 1,Cmkbr1,MGD-MRK-26055	chemokine (C-C motif) receptor 1	
Ccr7	NM_007719.2	CD197,chemokine (C-C) receptor 7,Cmkbr7,EBI1,EBI1h,Epstein-Barr virus induced gene 1 homolog,MGD-MRK-23848	chemokine (C-C motif) receptor 7	
Ccr9	NM_009913.6	chemokine (C-C) receptor 10,Cmkbr10,GPR-9-6	chemokine (C-C motif) receptor 9	
Cd14	NM_009841.3	MGD-MRK-1831	CD14 antigen	
Cd163	NM_053094.2		CD163 antigen	
Cd164	NM_016898.2	A115,A24,AA589639,AW540279,expressed sequence AA589639,expressed sequence AW540279,MGC-24,MGI:2143502,MGI:2143853	CD164 antigen	
Cd177	NM_026862.3	1190003K14RIK,Pdp3,RIKEN cDNA 1190003K14 gene	CD177 antigen	
Cd19	NM_009844.2	AW495831,expressed sequence AW495831,MGD-MRK-1833,MGI:2142241	CD19 antigen	
Cd209e	NM_130905.2	mSIGNR4,SIGNR4	CD209e antigen	
Cd22	NM_001043317.2	B-lymphocyte antigen 8,Lyb8,Lyb-8,MGD-MRK-12060,MGD-MRK-12066,MGD-MRK-1839	CD22 antigen	
Cd244	NM_018729.2	2B4,C9_1,F730046015RIK,MGD-MRK-38339,MGI:2442562,Nmrk,non MHC restricted killing associated,RIKEN cDNA F730046015 gene	CD244 natural killer cell receptor 2B4	
Cd24a	NM_009846.2	cluster of differentiation 24,heat stable antigen,HSA,Ly-52,lymphocyte antigen 52,MGD-MRK-11995,MGD-MRK-1840,nectadrin	CD24a antigen	
Cd27	NM_001042564.1	MGD-MRK-1844,S152,Tnfrsf7,Tp55,tumor necrosis factor receptor superfamily, member 7	CD27 antigen	
Cd274	NM_021893.2	B7-H1,Pdcd1g1,PD-L1,programmed cell death 1 ligand 1 6030411F23RIK,AU016588,B7h3,B7-H3,B7 homolog 3,B7RP-2,expressed sequence AU016588,MGI:2143194,RIKEN cDNA 6030411F23 gene	CD274 antigen	
Cd276	NM_133983.4	MGD-MRK-1845	CD276 antigen	
Cd28	NM_007642.4		CD28 antigen	
Cd34	NM_00111059.1	AU040960,expressed sequence AU040960,MGD-MRK-1849,MGI:2138487	CD34 antigen	
Cd3d	NM_013487.2	MGD-MRK-14696,MGD-MRK-1852,T3d,T3-delta chain	CD3 antigen, delta polypeptide	
Cd3e	NM_007648.4	A1504783,CD3,CD3epsilon,expressed sequence A1504783,MGD-MRK-14697,MGD-MRK-1853,MGI:2143086,T3e,T3-epsilon chain	CD3 antigen, epsilon polypeptide	
Cd3g	NM_009850.2	Ctg3,Ctg-3,MGD-MRK-14698,MGD-MRK-1854,MGD-MRK-2212,MGD-MRK-2213,T3g,T3-gamma chain	CD3 antigen, gamma polypeptide	
Cd4	NM_013488.2	L3T4,Ly-4,lymphocyte antigen 4,MGD-MRK-11981,MGD-MRK-1858	CD4 antigen	
Cd40	NM_011611.2	A1326936,Bp50,expressed sequence A1326936,MGD-MRK-1859,MGI:2138913,p50,Tnfrsf5,tumor necrosis factor receptor superfamily, member 5	CD40 antigen	
Cd40lg	NM_011616.2	CD154,CD40 antigen ligand,Cd40l,Cd40L,gp39,HIGM1,IJMD3,Ly62,Ly-62,lymphocyte antigen 62,MGD-MRK-12004,MGD-MRK-12047,MGD-MRK-1860,T-BAM,Tnfsf5,tumor necrosis factor (ligand) superfamily, member 5	CD40 ligand	
Cd44	NM_009851.2	AU023126,AW121933,AW146109,expressed sequence AU023126,expressed sequence AW121933,expressed sequence AW146109,HERMES,Ly-24,lymphocyte antigen 24,MGD-MRK-11964,MGD-MRK-13281,MGD-MRK-1863,MGI:2139311,MGI:2139322,MGI:3035411,Pgp-1,phagocyte glycoprotein 1	CD44 antigen	
Cd46	NM_010778.3	Mcp,membrane cofactor protein	CD46 antigen, complement regulatory protein	
Cd5	NM_007650.3	Ly-1,Ly-12,Ly-A,lymphocyte antigen 1,lymphocyte antigen 12,Lyt-1,MGD-MRK-11947,MGD-MRK-11950,MGD-MRK-12073,MGD-MRK-1866,T-lymphocyte antigen 1	CD5 antigen	
Cd52	NM_013706.2	A1463198,B7,CAMPATH-1,CLS1,expressed sequence A1463198,MB7,MGI:2140299	CD52 antigen	
Cd55	NM_010016.2	complement-glycosylphosphatidylinositol,Cromer blood group,Daf1,Daf-GPI,decay accelerating factor 1,GPI-DAF,MGD-MRK-28146	CD55 molecule, decay accelerating factor for complement	
Cd59a	NM_001111060.1	AA987121,CD59,CD59 antigen,expressed sequence AA987121,MGD-MRK-38221,MGI:2138824,protectin	CD59a antigen	
Cd6	NM_001037801.2	MGD-MRK-24451	CD6 antigen	
Cd68	NM_009853.1	gp110,Lamp4,macrosialin,MGD-MRK-1868,Scard1	CD68 antigen	
Cd7	NM_009854.1	MGD-MRK-1870	CD7 antigen	
Cd70	NM_011617.1	CD27LG,KI-24 antigen,Tnfsf7,tumor necrosis factor (ligand) superfamily, member 7	CD70 antigen	
Cd74	NM_001042605.1	CLIP,ia-associated invariant chain,ii,MGD-MRK-11344	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)	
Cd79a	NM_007655.3	aimmunoglobulin-associated alpha,CD79a antigen,IgA,IgAalpha,Ig alpha,Ig-alpha,immunoglobulin-associated alpha,Ly54,Ly-54,lymphocyte antigen 54,mb-1,MGD-MRK-11997,MGD-MRK-12040,MGD-MRK-18581	CD79a antigen (immunoglobulin-associated alpha)	
Cd80	NM_009855.2	B7-1,B7.1,CD28 antigen ligand,Cd28L,Ly53,Ly-53,lymphocyte antigen 53,MGD-MRK-11996,MGD-MRK-12039,MGD-MRK-1846,MGD-MRK-18582	CD80 antigen	
Cd81	NM_133655.2	MGD-MRK-14716,MGD-MRK-14717,MGI:98485,Tapa1,Tapa-1,target of antiproliferative antibody 1,Tspan28	CD81 antigen	
Cd83	NM_009856.3		CD83 antigen	
Cd84	NM_013489.2	A130013D22RIK,CDw84,MGI:2444272,RIKEN cDNA A130013D22 gene,SLAMF5	CD84 antigen	
Cd86	NM_019388.3	B70,B7-2,B7.2,CD28 antigen ligand,Cd28L2,Ly58,Ly-58,lymphocyte antigen 58,MB7-2,MGD-MRK-12000,MGD-MRK-12043,MGD-MRK-18572,MGD-MRK-18580	CD86 antigen	
Cd8a	NM_001081110.2	B8154331,expressed sequence B8154331,Ly-2,Ly-35,Ly-B,lymphocyte antigen 2,lymphocyte antigen 35,Lyt-2,MGD-MRK-11958,MGD-MRK-11976,MGD-MRK-12074,MGD-MRK-1872,MGI:2141733,T-lymphocyte antigen 2	CD8 antigen, alpha chain	
Cd8b1	NM_009858.2	Ly-3,Ly-C,lymphocyte antigen 3,Lyt-3,MGD-MRK-11970,MGD-MRK-12075,MGD-MRK-1873,T-lymphocyte antigen 3	CD8 antigen, beta chain 1	
Cd96	NM_032465.2	1700109112RIK,MGI:1920816,RIKEN cDNA 1700109112 gene,Tactile A1747189,AU018915,expressed sequence A1747189,expressed sequence AU018915,MGD-MRK-33903,MGI:2140354,MGI:2140443	CD96 antigen	
Cdc42	NM_009861.1	AU018915,MGD-MRK-33903,MGI:2140354,MGI:2140443	cell division cycle 42	
Cdh2	NM_007664.4	cadherin,N-,MGD-MRK-12785,MGD-MRK-1882,Ncad,N-CAD,N-cadherin	cadherin 2	
Cdk8	NM_153599.3	MGC:37111	cyclin-dependent kinase 8	
Cdk9	NM_130860.3	PITALRE	cyclin-dependent kinase 9 (CDC2-related kinase)	
Cdkn1a	NM_007669.4	CAP20,CDKI,Cdkn1,CIP1,cyclin dependent kinase inhibitor,mda6,MGD-MRK-16760,MGD-MRK-25990,P21,p21Cip1,p21WAF,p21-WAF1/CIP1-SD11,Waf1	cyclin-dependent kinase inhibitor 1A (P21)	
Ceacam3	NM_054059.1	cea12,EG384557,MGI:1891356,predicted gene,EG384557,pregnancy-specific glycoprotein 24,Ps24	carcinoembryonic antigen-related cell adhesion molecule 3	
Cfb	NM_008198.2	A1195813,AI255840,alternative-complement pathway C3/C5 convertase,B,Bf,adhesion component factor B,expressed sequence A1195813,expressed sequence AI255840,Factor B,Fb,H2-Bf,histocompatibility 2, complement component factor B,MGD-MRK-1540,MGD-MRK-33655,MGI:2146806,MGI:2146810	complement factor B	

Cfd	NM_013459.1	adipsin,Adn,D component (adipsin) of complement,DF, factor D,MGD-MRK-1130	complement factor D (adipsin)
Cfh	NM_009888.3	MGD-MRK-12706, MGD-MRK-14291, MGD-MRK-14293, MGD-MRK-1957, Mud-1, Sas1, Sas-1, serum antigenic substance 1	complement component factor h
Cflar	NM_207653.3	2310024N18RIK, A430105C05RIK, A1646576, AU021929, Cash, caspase homolog, Casper, c-Flip, expressed sequence A1646576, expressed sequence AU021929, Flip, MGI:1096876, MGI:1916820, MGI:1925024, MGI:2138307, MGI:2138466, RIKEN cDNA 2310024N18 gene, RIKEN cDNA A430105C05 gene	CASP8 and FADD-like apoptosis regulator
Cfp	NM_008823.3	MGD-MRK-13243, Pfc, properdin factor, complement	complement factor properdin
Chuk	NM_001162410.1	A1256658, Chuk1, expressed sequence A1256658, IkkappaB kinase alpha, IKK1, IKK 1, IKK-1, IKK[alpha], IKKalpha, IKK alpha, IKK-alpha, MGD-MRK-16258, MGI:2147493	conserved helix-loop-helix ubiquitinous kinase
Ciita	NM_007575.2	C2ta, EG669998, Gm9475, MGD-MRK-37489, MGI:3712178, predicted gene 9475, predicted gene, EG669998	class II transactivator
Clec4e	NM_019948.2	C86253, Clec3f9, C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9, expressed sequence C86253, MGI:2141778, Mincle	C-type lectin domain family 4, member e
Clu	NM_013492.2	A1893575, ApoJ, Apolipoprotein J, Cli, complement lysis inhibitor, D14Ucla3, DNA segment, Chr 14, University of California at Los Angeles 3, expressed sequence A1893575, MGD-MRK-14642, MGD-MRK-2016, MGD-MRK-2022, MGD-MRK-3968, MGI:2145707, MGI:90170, Sgp2, Sgp-2, SP-40, Sgp2, sulfated glycoprotein 2, testosterone repressed prostate message-2	clusterin
Cmklr1	NM_008153.3	ChemR23, Gpcr27, G-protein coupled receptor 27, MGD-MRK-39602	chemokine-like receptor 1
Cpa3	NM_007753.2	mast cell carboxypeptidase A, MC-CPA, MGD-MRK-2103, mMC-CPA C3DR, CD21, CD35, complement receptor 1, Cr1, Cr-1, Cr-2, MGD-MRK-2122, MGD-MRK-2123, MGD-MRK-2124, MGD-MRK-2125	carboxypeptidase A3, mast cell
Cr2	NM_007758.2	AL022669, expressed sequence AL022669, MGI:2141011	complement receptor 2
Crcp	NM_007761.2	2310001E10RIK, 3526402H21RIK, AV083133, Creb, Creb-1, cyclic AMP responsive element binding protein, expressed sequence AV083133, MGD-MRK-2134, MGD-MRK-2135, MGD-MRK-2136, MGI:1913601, MGI:1913933, MGI:2138519, RIKEN cDNA 2310001E10 gene, RIKEN cDNA 3526402H21 gene	calcitonin gene-related peptide-receptor component protein
Creb1	NM_001037726.1	AU044960, AW538053, C80076, expressed sequence AU044960, expressed sequence AW538053, expressed sequence C80076, Luman, LZIP, LZIP-1, LZIP-2, MGD-MRK-16749, MGI:2140496, MGI:2140584, MGI:2140683	cAMP responsive element binding protein 1
Creb3	NM_013497.3	BBF2H7, CS30025K05RIK, RIKEN cDNA CS30025K05 gene	cAMP responsive element binding protein 3
Creb3l2	NM_178661.3	1700012K17RIK, 5330432F22RIK, ATCE1, AV040530, AV258827, expressed sequence AV040530, expressed sequence AV258827, JAL, MGI:1925534, MGI:2139929, MGI:2139944, mJAL, RIKEN cDNA 1700012K17 gene, RIKEN cDNA 5330432F22 gene, Tisp40, Tisp40alpha, Tisp40beta	cAMP responsive element binding protein 3-like 2
Creb3l4	NM_030080.2	AW558298, CBP, expressed sequence AW558298, KAT3A, MGI:2146668	cAMP responsive element binding protein 3-like 4
Crebbp	NM_001025432.1	A1255847, expressed sequence A1255847, MGD-MRK-2156, MGI:2138184	CREB binding protein
Crp	NM_007768.4	C87615, colony-stimulating factor-1, colony stimulating factor, macrophage, CSF-1, Csfm, expressed sequence C87615, M-CSF, MGD-MRK-13034, MGD-MRK-2191, MGI:2140102, MGI:88534, op, osteopetrosis	C-reactive protein, pentraxin-related
Csf1	NM_001113530.1	colony stimulating factor, granulocyte macrophage, Csfgm, Gm-CSF, GMCSF, MGD-MRK-2187, MGI:88531, MGI-IGM	colony stimulating factor 1 (macrophage)
Csf2	NM_009969.4	CD116, colony stimulating factor, granulocyte macrophage, receptor alpha, Csfgrna, GM-CSF-Ra, GM-CSFRalpha, MGD-MRK-2188, MGI:88532	colony stimulating factor 2 (granulocyte-macrophage)
Csf2ra	NM_009970.2	Cd114, colony stimulating factor, granulocyte receptor, Csfgr, G-CSFR, MGD-MRK-2190, MGI:88533	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)
Csf3r	NM_001252651.1	AW212630, expressed sequence AW212630, MGD-MRK-2195, MGI:2143301	colony stimulating factor 3 receptor (granulocyte)
Csk	NM_007783.2	Cd152, CD152 antigen, CtlA-4, cytotoxic T lymphocyte-associated protein 4, Ly-56, MGD-MRK-2224, MGD-MRK-2234	c-src tyrosine kinase
Ctla4	NM_009843.3	batface, beta catenin, beta-catenin, Bfc, catenin beta, Catnb, MGD-MRK-1775, MGI:2656732	cytotoxic T-lymphocyte-associated protein 4
Ctnnb1	NM_007614.2	AA409437, AU019353, catenin, delta, catenin src, Ctnns, Ctnnd, expressed sequence AA409437, expressed sequence AU019353, MGD-MRK-28063, MGD-MRK-32140, MGI:2138768, MGI:2139175, mKIAA0384, P120, p120-catenin	catenin (cadherin associated protein), beta 1
Ctnnd1	NM_001085448.1	AU019505, expressed sequence AU019505, MGD-MRK-13590, MGI:2139179, PPCA, Ppqb, protective protein for beta-galactosidase	catenin (cadherin associated protein), delta 1
Ctpps	NM_016748.2	A1047818, dipeptidylpeptidase 1, DPP1, DPP1, expressed sequence A1047818, MGD-MRK-39552, MGI:2141863	cytidine 5'-triphosphate synthase
Ctsa	NM_001038492.2	A330105D01RIK, A118514, expressed sequence A118514, MGI:1925015, RIKEN cDNA A330105D01 gene	cathepsin A
Ctsc	NM_009982.4	lymphopain	cathepsin C
Ctso	NM_177662.2		cathepsin O
Ctsw	NM_009985.4		cathepsin W
Cu1	NM_012042.3	AB030188, A1848747, CX3C, DBBwg0439e, DNA segment, Chr 8, Brigham & Women's Genetics 0439 expressed, expressed sequence A1848747, fractalkine, hypothetical protein, clone 1-53, MGD-MRK-35756, MGI:107291, MGI:1930149, MGI:2142630, neurotactin, Scyd1, small inducible cytokine subfamily D, 1	cullin 1
Ox3d1	NM_009142.3	fibroblast secretory protein, Fsp, Gro1, GRO1 oncogene, KC, KC/GRO-alpha, melanoma growth stimulatory activity, MGD-MRK-12226, MGD-MRK-37105, MGD-MRK-9878, Mgsa, N51, Scyb1	chemokine (C-X3-C motif) ligand 1
Oxc1	NM_008176.1	C7, CRG-2, gp19-10, Jf19, INP10, interferon activated gene 10, IP10, IP-10, MGD-MRK-11217, MGI:96424, mob-1, Scyb10, small inducible cytokine B subfamily (Cys-X-Cys), member 10	chemokine (C-X-C motif) ligand 1
Oxc10	NM_021274.1	A1174028, expressed sequence A1174028, MGD-MRK-16620, MGD-MRK-16621, MGD-MRK-24440, MGI:2141381, P8SF, P8SF/SDF-1, Scyb12, Sdf1, SDF-1, Sdf1a, Sdf1b, stromal cell derived factor 1, stromal cell derived factor 1A, stromal cell derived factor 1B, Tlsf-a, Tlsf-b, TPAR1	chemokine (C-X-C motif) ligand 10
Oxc12	NM_021704.3	4631412M08RIK, ANGIE2, BCA-1, BLC, MGI:1918033, RIKEN cDNA 4631412M08 gene, Scyb13, small inducible cytokine subfamily B (Cys-X-Cys), member 13	chemokine (C-X-C motif) ligand 12
Oxc13	NM_018866.2	AMCF-II, Cxcl6, ENA-78, GCP-2, granulocyte chemotactic protein-2, LIX, MGI:1352761, Scyb5, Scyb6, small inducible cytokine B subfamily, member 5, small inducible cytokine subfamily B, member 15	chemokine (C-X-C motif) ligand 13
Oxc15	NM_009141.2	BB139920, CMK, crg-10, expressed sequence BB139920, MGD-MRK-33048, MGI:105379, MGI:2141267, Mig, monokine induced by gamma interferon, Scyb9, small inducible cytokine B subfamily (Cys-X-Cys), member 9	chemokine (C-X-C motif) ligand 5
Oxc19	NM_008599.2	IL8ra, interleukin 8 receptor, alpha	chemokine (C-X-C motif) ligand 9
Cxcr1	NM_178241.4	b2b220Cio, CD184, chemokine (G-X-C) receptor 4, Cmkar4, fusin, MGD-MRK-39562, MGI:5311025, Mutant line 220, PB-CR, Sdf1r	chemokine (C-X-C motif) receptor 1
Cxcr4	NM_009911.3	B1r1, Burkitt lymphoma receptor 1, CXCR-5, Gpcr6, G-protein coupled receptor 6, MGD-MRK-16340, MGD-MRK-24452, MGI:99562	chemokine (C-X-C motif) receptor 4
Cxcr5	NM_007551.2	BB217514, BONZO, expressed sequence BB217514, MGI:2143371, STRL33	chemokine (C-X-C motif) receptor 5
Cxcr6	NM_030712.4	b558, cytochrome beta-558, MGI:3526724, neuroscience mutagenesis facility 333, nmf333, p22 phox	chemokine (C-X-C motif) receptor 6
Cyba	NM_007806.3	C88302, Cgd, expressed sequence C88302, gp91phox, gp91-phox, MGD-MRK-1965, MGD-MRK-2263, MGI:2148082, Nox2	cytochrome b-245, alpha polypeptide
Cybb	NM_007807.2	2010013M14RIK, 2900009M21RIK, C130039D01RIK, CYLD1, MGI:1920125, MGI:2445104, mKIAA0849, RIKEN cDNA 2010013M14 gene, RIKEN cDNA 2900009M21 gene, RIKEN cDNA C130039D01 gene	cytochrome b-245, beta polypeptide
Cyld	NM_001276279.1	2310011D08RIK, A1480459, AIP1, expressed sequence A1480459, MGI:2138979, mKIAA1743, RIKEN cDNA 2310011D08 gene	CYLD lysine 63 deubiquitinase
Dab2ip	NM_001001602.2		disabled 2 interacting protein
Daxx	NM_007829.3		Fas death domain-associated protein

Ddit4	NM_029083.2	5830413E08RIK,AA415483,Dig2,expressed sequence AA415483,MGI:2143476,REDD1,RIKEN cDNA 5830413E08 gene,Rtp801	DNA-damage-inducible transcript 4
Ddx24	NM_020494.3	1700055J08RIK,2510027P10RIK,AI649272,expressed sequence AI649272,MGI:1919702,MGI:1925876,MGI:2144875,RIKEN cDNA 1700055J08	DEAD (Asp-Glu-Ala-Asp) box polypeptide 24
Ddx58	NM_172689.3	6430573D20RIK,RIG-I,RIKEN cDNA 6430573D20 gene 0610041G12RIK,1700006L01RIK,AU040403,expressed sequence AU040403,MGI:1923950,MGI:2141076,RIKEN cDNA 0610041G12 gene,RIKEN	DEAD (Asp-Glu-Ala-Asp) box polypeptide 58
Diablo	NM_023232.3	cDNA 1700006L01 gene,Smac	diablo, IAP-binding mitochondrial protein
Dll1	NM_007865.3	Delta1,MGD-MRK-26099	delta like canonical Notch ligand 1
Dll4	NM_019454.2	Delta4	delta like canonical Notch ligand 4
Dnmt1	NM_010066.3	Coxc9,Dnmt1o,MGD-MRK-12204,MGD-MRK-12206,MGD-MRK-8877,MGI:3586536,modifier of murine metastable epialleles, D2,MommeD2,MTase	DNA methyltransferase (cytosine-5) 1
Dnmt3a	NM_007872.4	AU015806,expressed sequence AU015806,expressed sequence W91664,MGI:2144939,MGI:2145138,W91664	DNA methyltransferase 3A
Dtx3l	NM_001013371.2	AU042200,BC023741,cDNA sequence BC023741,expressed sequence AU042200,MGI:3035479	deltex 3-like, E3 ubiquitin ligase
Dvl2	NM_007888.3	MGD-MRK-35070	dishevelled segment polarity protein 2
Dynll2	NM_026556.4	1700064A15RIK,6720463E02RIK,C87222,expressed sequence C87222,MGI:1920652,MGI:2144689,RIKEN cDNA 1700064A15 gene,RIKEN cDNA 6720463E02 gene	dynein light chain LC8-type 2
E2f4	NM_148952.1	2010111M04RIK,AI427446,expressed sequence AI427446,MGD-MRK-23849,MGI:1919312,MGI:2142532,RIKEN cDNA 2010111M04 gene	E2F transcription factor 4
Ebi3	NM_015766.2	EBI-3,IL-27	Epstein-Barr virus induced gene 3
Egf	NM_010113.3	AI790464,expressed sequence AI790464,MGD-MRK-9315,MGI:2139798	epidermal growth factor
Egr2	NM_010118.2	Egr-2,Krox20,Krox-20,Kruppel box 2,MGD-MRK-11620,MGD-MRK-15869,MGD-MRK-9325,MGD-MRK-9327,NGF1-B,Zfp-25,zinc finger protein 25 4833432N07RIK,BM-010,Ddx2b,Eif4,eukaryotic translation initiation factor 4,MGD-MRK-35367,MGD-MRK-9336,MGI:2442677,RIKEN cDNA 4833432N07	early growth response 2
Eif4a2	NM_013506.2	gene	eukaryotic translation initiation factor 4A2
Eif4ebp1	NM_007918.3	4e-bp1,AA959816,expressed sequence AA959816,MGD-MRK-24146,MGI:2142450,PHAS-I	eukaryotic translation initiation factor 4E binding protein 1
Elane	NM_015779.2	Ela2,elastase 2, neutrophil,F430011M15RIK,NE,neutrophil elastase,RIKEN cDNA F430011M15 gene	elastase, neutrophil expressed
Elavl1	NM_010485.3	2410055N02RIK,expressed sequence W91709,Hua,HU-antigen A,HuR,MGI:1920936,MGI:2142902,RIKEN cDNA 2410055N02 gene,W91709	ELAV (embryonic lethal, abnormal vision)-like 1 (Hu antigen R)
Elk1	NM_007922.4	Elk-1,MGD-MRK-18654	ELK1, member of ETS oncogene family
Eno1	NM_023119.2	2-phospho-D-glycerate hydrolase,AL022784,alpha-enolase,c-Myc promoter binding protein,Eno-1,expressed sequence AL022784,MGP-1,MGD-MRK-9503,MGD-MRK-9506,MGI:2143710 C77258,expressed sequence C77258,MGI:1313283,MGI:2143384,T-box brain gene 2,Tbr2	enolase 1, alpha non-neuron
Eomes	NM_010136.2	gene 2,Tbr2	eomesodermin
Ep300	NM_177821.6	KAT3B,p300	E1A binding protein p300
Ero1l	NM_015774.2	AI196000,AI448617,Ets-1,expressed sequence AI196000,expressed sequence AI448617,MGI:18571,MGD-MRK-15175,MGD-MRK-15200,MGD-MRK-15415,MGD-MRK-9663,MGD-MRK-9665,MGI:2142990,MGI:2143054,MGI:98794,MGI:98939,p42Ets-1,p51Ets-1,Tpl1,tumor progression locus 1,variable spotting,vs enhancer of zeste homolog (Drosophila),Enx-1,Enx1h,KMT6,MGD-MRK-35129,MGD-MRK-36520,MGI:106670	ERO1-like (S. cerevisiae)
Ets1	NM_001038642.1	enhancer of zeste homolog (Drosophila),Enx-1,Enx1h,KMT6,MGD-MRK-35129,MGD-MRK-36520,MGI:106670	E26 avian leukemia oncogene 1, 5' domain
Ezh2	NM_007971.2	1200014I03RIK,AI462306,expressed sequence AI462306,Factor XIIIa,MGI:2145250,RIKEN cDNA 1200014I03 gene	enhancer of zeste 2 polycomb repressive complex 2 subunit
F13a1	NM_001166391.1	Cf8,Cf-8,Factor VIII,FVIII,MGD-MRK-1949,MGD-MRK-1955	coagulation factor XIII, A1 subunit
F8	NM_001161374.1	MGD-MRK-38369,Mort1/FADD	coagulation factor VIII
Fadd	NM_010175.5	Bcnp1,BCNP1 homolog	Fas (TNFRSF6)-associated via death domain
Fam129c	NM_001166213.1	AI196731,APO-1,CD95,expressed sequence AI196731,ipr,lymphoproliferation,MGD-MRK-11878,MGD-MRK-9711,MGI:2147489,TNFR6,TNF receptor superfamily member 6,Tnfrsf6 APT1LG1,CD178,CD95L,Fas antigen ligand,Fas-L,generalized lymphoproliferative disease,gld,MGD-MRK-10104,MGD-MRK-16013,Tnfsf6,tumor necrosis factor (ligand) superfamily, member 6 2410015K21RIK,A230052G17RIK,AI117679,AW260462,C85118,expressed sequence AI117679,expressed sequence AW260462,expressed sequence C85118,MGI:2143525,MGI:2143831,MGI:2143938,MGI:2444955,RIKEN cDNA 2410015K21 gene,RIKEN cDNA A230052G17 gene	family with sequence similarity 129, member C
Fas	NM_007987.2	AI196731,APO-1,CD95,expressed sequence AI196731,ipr,lymphoproliferation,MGD-MRK-11878,MGD-MRK-9711,MGI:2147489,TNFR6,TNF receptor superfamily member 6,Tnfrsf6 APT1LG1,CD178,CD95L,Fas antigen ligand,Fas-L,generalized lymphoproliferative disease,gld,MGD-MRK-10104,MGD-MRK-16013,Tnfsf6,tumor necrosis factor (ligand) superfamily, member 6 2410015K21RIK,A230052G17RIK,AI117679,AW260462,C85118,expressed sequence AI117679,expressed sequence AW260462,expressed sequence C85118,MGI:2143525,MGI:2143831,MGI:2143938,MGI:2444955,RIKEN cDNA 2410015K21 gene,RIKEN cDNA A230052G17 gene	Fas (TNF receptor superfamily member 6)
FasL	NM_010177.3	2410015K21RIK,A230052G17RIK,AI117679,AW260462,C85118,expressed sequence AI117679,expressed sequence AW260462,expressed sequence C85118,MGI:2143525,MGI:2143831,MGI:2143938,MGI:2444955,RIKEN cDNA 2410015K21 gene,RIKEN cDNA A230052G17 gene	Fas ligand (TNF superfamily, member 6)
Fbxo7	NM_153195.2	2310065A07RIK,AA536858,BTRC2,BTRCP2,expressed sequence AA536858,F- box and WD-40 domain protein	F-box protein 7
Fbxw11	NM_134015.2	1B,Fbxw1b,HOS,MGI:1919630,mKIAA0696,RIKEN cDNA 2310065A07 gene Fce1a,Fc epsilon high affinity receptor alpha,FcERI,Fcr-5,MGD-MRK-9724,MGD-MRK-9728,MGD-MRK-9741	F-box and WD-40 domain protein 11
Fcgr1a	NM_010184.1	AI323638,AV092959,CD64,expressed sequence AI323638,expressed sequence AV092959,Fc gammaRII,MGD-MRK-9732,MGI:2139673,MGI:2139933	Fc receptor, IgE, high affinity I
Fcgr1	NM_010186.5	AI528646,CD32,expressed sequence AI528646,F630109E10RIK,Fc-gamma receptor 2,Fc-gamma receptor 3,Fc gammaRIIIB,Fc gamma RIIB,Fcgr2,Fcgr2a,FcgrIII,FcIgRII,Fcr-2,Fcr-3,Fc receptor, IgG, low affinity II,Fc receptor, IgG, low affinity IIa,Ily-17,Lym-1,Lym-1L,lym-20,lymphocyte antigen 17,lymphocyte antigen m30,MGD-MRK-11935,MGD-MRK-12013,MGD-MRK-12069,MGD-MRK-12070,MGD-MRK-9733,MGD-MRK-9734,MGD-MRK-9735,MGD-MRK-9739,MGD-MRK-9740,MGI:2138286,MGI:2445072,RIKEN cDNA F630109E10 gene	Fc receptor, IgG, low affinity IIb
Fcgr2b	NM_001077189.1	4833442P21RIK,CD16-2,Fc fragment of IgG, low affinity IIIa, receptor Fc gammaRIV,Fcgr3a,MGI:2443436,RIKEN cDNA 4833442P21 gene	Fc receptor, IgG, low affinity IV
Fcgr4	NM_144559.1	FcRn,MGD-MRK-23854,neonatal Fc receptor	Fc receptor, IgG, alpha chain transporter
Fcgrt	NM_010189.3	gene	ficolin B
Fcgb	NM_010190.1	A230020G22RIK,BXMAS1- like,Fcrl1,IFGP1,mBXMH1,mIFGP1,mofcRH1,mofcRH1L,mofcRH1S,RIKEN cDNA A230020G22 gene	Fc receptor-like 1
Fcrl1	NM_153090.2	BXMAS1-like protein 2,Fc receptor-like protein 3,Fcrl3,mBXMH2	Fc receptor-like 5
Fcrl5	NM_001113238.1	Fc receptor related Y,FcRL2,Fcrl,FREB2,FREB-2,mFcRL2	Fc receptor-like B
Fcrlb	NM_001029984.2	2810439C17RIK,Fcrl2,IFGP2,macrophage scavenger receptor 2,MGI:1920010,mofcRH2c,Msr2,RIKEN cDNA 2810439C17 gene	Fc receptor-like S, scavenger receptor
Fcrls	NM_030707.3	AI586313,BB137047,c-fes,expressed sequence AI586313,expressed sequence BB137047,MGD-MRK-9758,MGI:2142003,MGI:2142293	feline sarcoma oncogene
Fes	NM_010194.2	MGD-MRK-9787	FGR proto-oncogene, Src family tyrosine kinase
Fgr	NM_010208.4	AI323757,expressed sequence AI323757,Fit-1,MGD-MRK-9832,MGD-MRK-9836,MGI:2140833,sFit1,vascular endothelial growth factor receptor- 1,VEGFR1,VEGFR-1	
Fit1	NM_010228.3	AI323512,Chy,chylous ascites,expressed sequence AI323512,Fit-4,MGD-MRK-1984,MGD-MRK-9835,MGD-MRK-9839,MGI:2144119,MGI:88402,VEGFR3,VEGFR-3 3110052D19RIK,4932443N09RIK,AW494214,expressed sequence AW494214,MGI:1889841,MGI:1920481,MGI:2141684,RIKEN cDNA 3110052D19 gene,RIKEN cDNA 4932443N09 gene	FMS-like tyrosine kinase 1
Fit4	NM_008029.3	3110052D19RIK,4932443N09RIK,AW494214,expressed sequence AW494214,MGI:1889841,MGI:1920481,MGI:2141684,RIKEN cDNA 3110052D19 gene,RIKEN cDNA 4932443N09 gene	FMS-like tyrosine kinase 4
Foxp1	NM_001197322.1	JM2,MGD-MRK-14368,MGI:98281,scurfin,scurfy,sf	forkhead box P1
Foxp3	NM_054039.2	gene	forkhead box P3
Fpr1	NM_013521.2	fMLF-R,FPR,MGD-MRK-35914 9130404I01RIK,Fur,MGD-MRK-13193,MGD-MRK-9893,MGI:1925399,PACE,Pcsk3,proprotein convertase subtilisin/kexin type 3,RIKEN cDNA 9130404I01 gene,SPC1	formyl peptide receptor 1
Furin	NM_011046.2	9130404I01RIK,Fur,MGD-MRK-13193,MGD-MRK-9893,MGI:1925399,PACE,Pcsk3,proprotein convertase subtilisin/kexin type 3,RIKEN cDNA 9130404I01 gene,SPC1	furin (paired basic amino acid cleaving enzyme)

Gata3	NM_008091.3	Gata-3,ja1,juvenile alopecia,MGD-MRK-10000,MGD-MRK-10004,MGI:2181648	GATA binding protein 3	
Gbp2	NM_010260.1	MGD-MRK-19679	guanylate binding protein 2	
Gbp2b	NM_010259.2	Gbp1,Gbp-1,guanylate binding protein 1,macrophage activation 1,Mag-1,MGD-MRK-10008,MGD-MRK-10009,MGD-MRK-12400,MGD-MRK-12402,MGI:97071,Mpa1,Mpa-1	guanylate binding protein 2b	
Gbp5	NM_153564.2	5330409J06Rik,Gbp5a,MGI:2444553,RIKEN cDNA 5330409J06 gene	guanylate binding protein 5	
Gclc	NM_010295.2	D9Wsu168e,DNA segment, Chr 9, Wayne State University 168, expressed,gamma GCS-HS,GlcIc,GLCL-H,glutamate cysteine ligase (gamma-glutamylcysteine synthetase), catalytic,MGD-MRK-31063,MGD-MRK-36456,MGI:107879	glutamate-cysteine ligase, catalytic subunit	
Ghdh	NM_031871.1	D11Lgp1e,DNA segment, Chr 11, Lother Hennighausen 1, expressed 2310004P21Rik,AV028449,expressed sequence	GH3 domain containing	
Gmpr	NM_025508.4	AV028449,MGI:2145389,RIKEN cDNA 2310004P21 gene	guanosine monophosphate reductase	
Grb2	NM_008163.3	AA408164,expressed sequence AA408164,MGD-MRK-10242,MGI:2143976	growth factor receptor bound protein 2	
Grik2	NM_130863.1	Adrbk1,Adrbk-1,adrenergic receptor kinase, beta 1,Bark-1,beta-adrenergic receptor kinase 1,beta-adrenergic receptor kinase-1,beta ARK,betaARK1,beta ARK1,beta-AR kinase-1,MGD-MRK-1149,MGD-MRK-1151,MGD-MRK-1496	G protein-coupled receptor kinase 2	
Grk6	NM_011938.4	Gprk6	G protein-coupled receptor kinase 6	
Grn	NM_008175.3	acroganulin,epithelin,MGD-MRK-10272,PC cell-derived growth factor,Pgrn,progranulin	granulin	
Gsdmd	NM_026960.4	1810036L03Rik,AW558049,DF5L,Dfna5I,expressed sequence AW558049,gasdermin domain containing 1,Gsdmdc1,M2-4,MGI:2146243,RIKEN cDNA 1810036L03 gene	gasdermin D	
Gsk3b	NM_019827.3	7330414F15Rik,8430431H08Rik,C86142,expressed sequence C86142,GSK3,GSK-3,GSK-3beta,MGI:1914056,MGI:1925394,MGI:2146721,RIKEN cDNA 7330414F15 gene,RIKEN cDNA 8430431H08 gene	glycogen synthase kinase 3 beta	
Gstp1	NM_013541.1	Gst p-1,Gstpi8,MGD-MRK-10324	glutathione S-transferase, pi 1	Gstp2 (NM_181796)
Gucy1b1	NM_017469.4	beta 1 sGC,guanylate cyclase 1, soluble, beta 3,Gucy1b3	guanylate cyclase 1, soluble, beta 1	
Gzma	NM_010370.2	AW494114,BLT esterase,Ctla3,Ctla-3,cytotoxic T lymphocyte-associated protein 3,expressed sequence AW494114,Hanukaf factor,Hf,H factor,MGD-MRK-10699,MGD-MRK-2223,MGD-MRK-2233,MGD-MRK-38311,MGI:2145434,SE1,serine esterase 1,TSP1,TSP-1	granzyme A	
Gzmb	NM_013542.2	A1553453,CCP1,CCP-1/C11,Ctla1,Ctla-1,cytotoxic T lymphocyte-associated protein 1,expressed sequence A1553453,GZB,MGD-MRK-2219,MGD-MRK-2229,MGD-MRK-38312,MGI:2145670	granzyme B	
Gzmg	NM_010375.2	Ctla7,Ctla-7,cytotoxic T lymphocyte-associated protein 7,MGD-MRK-2237,MGD-MRK-38298	granzyme G	
Gzmm	NM_008504.2	Lmet1,lymphocyte Met-ase 1,MGD-MRK-16327	granzyme M (lymphocyte met-ase 1)	
H2-Aa	NM_010378.2	Aalpha,A alpha,H-2Aa,histocompatibility 2, class II antigen A alpha,Ia1,Ia-1-Aalpha,I region-associated antigen 1,MGD-MRK-10377,MGD-MRK-10490,MGD-MRK-11044,MGD-MRK-11049	histocompatibility 2, class II antigen A, alpha	
H2-Ab1	NM_207105.2	Abeta,A beta,A1845868,expressed sequence A1845868,H-2Ab,H2-Ab,histocompatibility 2, class II antigen A, beta,Ia2,Ia-2,IAb,I-A<beta>-J-beta,J region-associated antigen 2,MGD-MRK-10378,MGD-MRK-10491,MGD-MRK-11045,MGD-MRK-11050,MGD-MRK-23932,MGI:1890696,MGI:2146934,response to metastatic cancers 1,Rmcs1	histocompatibility 2, class II antigen A, beta 1	
H2-D1	NM_010380.3	H-2D,MGD-MRK-10379,MGD-MRK-10492	histocompatibility 2, D region locus 1	
H2-DMa	NM_010386.3	H-2Ma,H2-Ma,H2-M alpha,histocompatibility 2, class II, locus Ma,MGD-MRK-10405,MGD-MRK-10517	histocompatibility 2, class II, locus DMa	
H2-DMb1	NM_010387.2	A1385589,expressed sequence A1385589,H-2Mb1,H2-Mb1,MGD-MRK-10406,MGD-MRK-10518,MGI:2146833	histocompatibility 2, class II, locus Mb1	
H2-DMb2	NM_010388.4	H-2Mb2,H2-Mb2,H2-M beta2,MGD-MRK-10407,MGD-MRK-10519	histocompatibility 2, class II, locus Mb2	
H2-Eb1	NM_010382.2	H-2Eb,Ia4,Ia-4,I region-associated antigen 4,MGD-MRK-10384,MGD-MRK-10497,MGD-MRK-11047,MGD-MRK-11052	histocompatibility 2, class II antigen E beta 1	
H2-K1	NM_001001892.2	H-2K,MGD-MRK-10388,MGD-MRK-10500	histocompatibility 2, K1, K region	
H2-M3	NM_013819.2	H-2M3,Hmt,MGD-MRK-10400,MGD-MRK-10511,MGD-MRK-10801,R4B2 A-beta2,A-beta-2,H2-Ab,H2-Ab2,H-2I,H2-IAb2,H-2Ob,histocompatibility 2, class II antigen A, beta,histocompatibility 2, class II antigen A beta 2,MGD-MRK-10378,MGD-MRK-10409,MGD-MRK-10491,MGD-MRK-10521,MGD-MRK-23933,Ob	histocompatibility 2, M region locus 3	
H2-Ob	NM_010389.3	23933,Ob	histocompatibility 2, O region beta locus	
H2-Pa	ENSMUST00000182803.1	MGD-MRK-32355	histocompatibility 2, P region alpha locus	
H2-Q1	NM_010390.4	15006,H-2Q1,MGD-MRK-10412,MGD-MRK-10524,MGD-MRK-13708,MGD-MRK-13718,MGD-MRK-13736,MGI:3779428,predicted gene, 15006,Q1,Q1b,Q1d,Q1k	histocompatibility 2, Q region locus 1	
H2-Q10	NM_010391.4	H-2Q10,MGD-MRK-10413,MGD-MRK-10525,MGD-MRK-13707,MGD-MRK-13719,Q10,Qa10,Qa lymphocyte antigen 10,Q region gene 10 BE136769,ENSMUSG00000079507,expressed sequence BE136769,Gm11132,H-2Q2,MGD-MRK-10414,MGD-MRK-10527,MGI:3035350,MGI:3779387,predicted gene 11132,predicted gene, ENSMUSG00000079507	histocompatibility 2, Q region locus 10	
H2-Q2	NM_010392.2	37b,37c,H-2T23,MGD-MRK-10439,MGD-MRK-10553,Qa1,Qa-1,Qed-1,T18c,T18c(37),T23b,T23d	histocompatibility 2, Q region locus 2	
H2-T23	NM_010398.3	macroH2A2	histocompatibility 2, T region locus 23	H2-T-ps (NM_001271005)
H2afy2	NM_207000.2	macroH2A2	H2A histone family, member Y2	
Havr2	NM_134250.2	T-cell immunoglobulin and mucin domain containing 3,Tim3,TIM-3,TimD3,CS5a,He,MGD-MRK-10645,MGD-MRK-10689,MGD-MRK-1703	hepatitis A virus cellular receptor 2	
Hc	NM_010406.1	AW108189,expressed sequence AW108189,Hdc-a,Hdc-c,Hdc-e,Hdc-f,histidine decarboxylase concentration (kidney),histidine decarboxylase estrogen response,histidine decarboxylase, structural (kidney),histidine decarboxylase testosterone response,L-histidine decarboxylase,MGD-MRK-10684,MGD-MRK-10683,MGD-MRK-10684,MGD-MRK-10685,MGD-MRK-10686,MGI:2139302,MGI:96063,MGI:96064,MGI:96065,MGI:96066	hemolytic complement	
Hdc	NM_008230.4	1700121D12Rik,2510038N07Rik,4930427L17Rik,AI451296,CEB1,EST AI451296,hect domain and RLD 5,Herc5,MGI:1889836,MGI:1921562,MGI:1921870,RIKEN cDNA 1700121D12 gene,RIKEN cDNA 2510038N07 gene,RIKEN cDNA 4930427L17 gene AA959795,bHLHe78,expressed sequence AA959795,HIF1alpha,HIF-1alpha,MGD-MRK-35379,MGI:2144750,MOP1	histidine decarboxylase	
Herc6	NM_025992.2	1700121D12Rik,2510038N07Rik,4930427L17Rik,AI451296,CEB1,EST AI451296,hect domain and RLD 5,Herc5,MGI:1889836,MGI:1921562,MGI:1921870,RIKEN cDNA 1700121D12 gene,RIKEN cDNA 2510038N07 gene,RIKEN cDNA 4930427L17 gene AA959795,bHLHe78,expressed sequence AA959795,HIF1alpha,HIF-1alpha,MGD-MRK-35379,MGI:2144750,MOP1	hect domain and RLD 6	
Hif1a	NM_010431.2	hypoxia inducible factor 1, alpha subunit	hypoxia inducible factor 1, alpha subunit	
Hist1h2ao	NM_001177544.1	histone cluster 1, H2ao	histone cluster 1, H2ao	
Hist1h2be	NM_178194.3	histone cluster 1, H2be	histone cluster 1, H2be	
Hist1h2bk	NM_175665.1	histone cluster 1, H2bk	histone cluster 1, H2bk	Hist1h2be (NM_001177544), Hist1h2bp (NM_178202), Hist1h2bq (NM_001097979;NM_001313880), Hist1h2br (NM_001313878;NM_001105555), Hist1h2bc (NM_001290380) Hist1h3c (NM_175653), Hist1h3a (NM_013550), Hist1h3f (NM_013548), Hist2h3b (NM_178215), Hist1h3d (NM_178204), Hist1h3e (NM_178205), Hist1h3h (NM_178206), Hist1h3i (NM_178207), Hist1h3g (NM_145073)
Hist1h3b	NM_178203.1	H3-53	histone cluster 1, H3b	
Hist1h4k	NM_178211.2	expressed sequence M32461,H3-614,Hist2h3c-ps,Hist2h3ca1,histone cluster 2, H3c2, pseudogene,M32461,MGI:2140105	histone cluster 1, H4k	Hist1h4j (NM_178210)
Hist2h3c2	NM_054045.4	1500011009Rik,AI413321,expressed sequence AI413321,MGI:2144144,RIKEN cDNA 1500011009 gene	histone cluster 2, H3c2	Hist2h3c1 (NM_178216), Hist1h2bp (NM_178202), Hist1h2bq (NM_001097979;NM_001313880), Hist1h2br (NM_001313878;NM_001105555), Hist1h2bc (NM_175664), Hist1h2bj (NM_178198), Hist1h2bk (NM_175665)
Hist3h2ba	NM_030082.4	amphoterin,DEF,high mobility group protein 1,Hmg1,HMG-1,MGD-MRK-10748,p30,SBP-1	histone cluster 3, H2ba	
Hmgb1	NM_010439.3	C80539,expressed sequence C80539,high mobility group protein	high mobility group box 1	
Hmgb2	NM_008252.3	2,Hmg2,HMG-2,MGD-MRK-10793,MGI:2140686	high mobility group box 2	

Hras	NM_001130443.1	c-H-ras,c-rasHa,Ha-ras,Harvey-ras,Harvey rat sarcoma virus oncogene 1,H-ras,Hras1,Hras-1,MGD-MRK-10930,MGD-MRK-10931	Harvey rat sarcoma virus oncogene	
Hsd11b1	NM_008288.2	11beta-HSD-1,11beta-hydroxysteroid dehydrogenase type 1,MGD-MRK-24447	hydroxysteroid 11-beta dehydrogenase 1	
Hsp90ab1	NM_008302.3	AL022974,C81438,expressed sequence AL022974,expressed sequence C81438,heat shock protein 1, beta,heat shock protein, 84 kDa 1,heat shock protein, 90 kDa,Hsp84,Hsp84-1,Hsp90,Hspcb,MGD-MRK-10963,MGD-MRK-10974,MGI:2146951,MGI:2147140	heat shock protein 90 alpha (cytosolic), class B member 1	
Hsp90b1	NM_011631.1	90 kDa,endoplasmic ERp99,gp96,GRP94,MGD-MRK-15216,MGD-MRK-15219,MGI:1100861,Targ2,Tra1,Tra-1,transforming growth factor alpha regulated gene 2,tumor rejection antigen gp96,tumor rejection antigen (gp96) 1	heat shock protein 90, beta (Gp94), member 1	
Hspb1	NM_013560.2	heat shock protein, 25 kDa,Hsp25,MGD-MRK-10954	heat shock protein 1	
Icam1	NM_010493.2	CD54,Icam-1,Ly-47,lymphocyte antigen 47,MALA-2,MGC:6195,MGD-MRK-11146,MGD-MRK-11148,MGD-MRK-11989	intercellular adhesion molecule 1	
Icos	NM_017480.1		inducible T cell co-stimulator	
Icosl	NM_015790.3	AU044799,B7h,B7-H2,B7RP-1,BG071784,EST BG071784,expressed sequence AU044799,GL50,GL50-B,IICOS-L,IICOS,MGI:2143770,MGI:2652130	icos ligand	
Id1	NM_010495.2	A1323524,bHLHb24,D2Wsu140e,DNA segment, Chr 2, Wayne State University 140, expressed,expressed sequence A1323524,Idb1,MGD-MRK-11153,MGD-MRK-35816,MGI:107350,MGI:2138900	inhibitor of DNA binding 1	
Ido1	NM_008324.1	Ido,Indo,indole 2,3-dioxygenase,indole 2,4-dioxygenase,indoleamine-pyrrole 2,3 dioxygenase,MGD-MRK-11186	indoleamine 2,3-dioxygenase 1	
Ifi27	NM_026790.2	1110013J02Rik,2900026P10Rik,D12Ert647e,DNA segment, Chr 12, ERATO Doi 647, expressed,Ifi271,interferon, alpha-inducible protein 27 like 1,MGI:1915877,MGI:1925649,RIKEN cDNA 1110013J02 gene,RIKEN cDNA 2900026P10 gene	interferon, alpha-inducible protein 27	
Ifi30	NM_023065.3	GILT,IP30,lysosomal thio reductase IP30 precursor	interferon gamma inducible protein 30	
Ifi35	NM_027320.4	2010008K16Rik,AW986054,expressed sequence AW986054,IFP35,MGI:2144592,RIKEN cDNA 2010008K16 gene	interferon-induced protein 35	
Ifi44	NM_133871.2	A430056A10Rik,AW261460,expressed sequence AW261460,MGI:2139980,MTAP44,p44,RIKEN cDNA A430056A10 gene	interferon-induced protein 44	
Ifi44l	NM_031367.1	H28,H-28,H28-1,H28c minor histocompatibility antigen 1,histocompatibility 28,MGD-MRK-10375,MGD-MRK-10571,MGI:1929090,NS1178	interferon-induced protein 44 like	
Ifih1	NM_027835.2	9130009C22Rik,Helicard,MDA5,MDA-5,RIKEN cDNA 9130009C22 gene	interferon induced with helicase C domain 1	
Ifit1	NM_008331.2	Ifi56,interferon inducible protein 56,ISG56,MGD-MRK-16219	interferon-induced protein with tetratricopeptide repeats 1	
Ifit3	NM_010501.1	Ifi49,interferon inducible protein 49	interferon-induced protein with tetratricopeptide repeats 3	Ifit3b (NM_001005858)
Ifitm1	NM_001112715.1	1110036C17Rik,fragilis2,interferon induced transmembrane protein 2 like,MiI2,RIKEN cDNA 1110036C17 gene	interferon induced transmembrane protein 1	
Ifitm3	NM_025378.2	1110004C05Rik,Fgls,fragilis,IP15,mil-1,RIKEN cDNA 1110004C05 gene	interferon induced transmembrane protein 3	
Ifna1	NM_010502.2	Ifa1,MGD-MRK-11201,MGD-MRK-36243	interferon alpha 1	Ifna12 (NM_177361), Ifna11 (NM_008333), Ifna7 (NM_008334)
Ifnar1	NM_010508.1	Ifar,IFN-alpha/betaR,Ifrc,MGD-MRK-11211,MGD-MRK-11223,MGD-MRK-36233	interferon (alpha and beta) receptor 1	
Ifnar2	NM_001110498.1	A1747302,expressed sequence A1747302,Ifnar-2,MGI:2146482	interferon (alpha and beta) receptor 2	
Ifnb1	NM_010510.1	Ifb,IFNB,IFN-beta,MGD-MRK-11212,MGD-MRK-36232	interferon beta 1, fibroblast	
Ifng	NM_008337.1	Ifg,IFN-gamma,MGD-MRK-11214,MGD-MRK-36231	interferon gamma	
Ifngr1	NM_010511.2	CD119,Ifngr,IFN-gammaR,IFN-gamma R,Ifngr,MGD-MRK-11215,MGD-MRK-36230,Nktar	interferon gamma receptor 1	
Ikbkb	NM_010546.2	A1132552,expressed sequence A1132552,IKK2,IKK-2,IKK[b],IKKbeta,IKK-beta,MGI:2142466	inhibitor of kappaB kinase beta	
Ikbke	NM_019777.3	AW558201,expressed sequence AW558201,IKKepsilon,IKK-I,MGI:2138621	inhibitor of kappaB kinase epsilon	
Ikbkg	NM_178590.2	1110037D23Rik,AI848108,AI851264,AW124339,expressed sequence AI848108,expressed sequence AI851264,expressed sequence AW124339,IKK[g],MGI:1923574,MGI:2147920,MGI:2147925,MGI:2148001,N EMO,RIKEN cDNA 1110037D23 gene	inhibitor of kappaB kinase gamma	
Ikzf1	NM_009578.2	5832432G11Rik,early lymphoid specific transcription factor,Ikaros,Lyf-1,MGD-MRK-11345,MGI:2442667,MGI:96535,RIKEN cDNA 5832432G11 gene,Zfpn1a1,zinc finger protein, subfamily 1A, 1 (Ikaros)	IKAROS family zinc finger 1	
Ikzf3	NM_011771.1	5830411007Rik,Aiolos,lymphoid restricted transcription factor,MGI:1926180,MGI:891998,RIKEN cDNA 5830411007 gene,Zfpn1a3,zinc finger protein, subfamily 1A, 3 (Aiolos)	IKAROS family zinc finger 3	
Il10	NM_010548.1	11361	interleukin 10	
Il10ra	NM_008348.2	AW553859,CDw210,expressed sequence AW553859,Il10r,interleukin 10 receptor,MGD-MRK-11362,MGI:2143329,mIL-10R	interleukin 10 receptor, alpha	
Il10rb	NM_008349.5	6620401D04Rik,AI528744,CRF2-4,Crfb4,cytokine receptor family 2, member 4,D16H21558,D21558b,DNA segment, Chr 16, human D21558,expressed sequence AI528744,Il10r2,MGD-MRK-38425,MGD-MRK-4247,MGD-MRK-5726,MGI:1918692,MGI:2146455,MGI:90448,RIKEN cDNA 6620401D04 gene	interleukin 10 receptor, beta	
Il12a	NM_008351.1	Il-12a,IL-12p35,MGD-MRK-11348,MGD-MRK-11363,p35	interleukin 12a	
Il12b	NM_008352.2	Il-12b,IL-12p40,IL-12 p40,IL-23 subunit p40,MGD-MRK-11349,MGD-MRK-11364	interleukin 12b	
Il12rb1	NM_008353.2	CD212,IL-12R[b],MGD-MRK-26013	interleukin 12 receptor, beta 1	
Il13	NM_008355.2	Il-13,MGD-MRK-11350,MGD-MRK-11365	interleukin 13	
Il15	NM_008357.2	A1503618,expressed sequence A1503618,MGD-MRK-23851,MGI:2142577	interleukin 15	
Il17a	NM_010552.3	Ctla8,Ctla-8,cytotoxic T lymphocyte-associated protein 8,II17,IL-17A,interleukin 17,MGD-MRK-2228,MGD-MRK-2238,MGD-MRK-35831	interleukin 17A	
Il17c	NM_145834.3	IL-17C	interleukin 17C	
Il17f	NM_145856.2	C87042,expressed sequence C87042,MGI:2138720	interleukin 17F	
Il17rc	NM_134159.2	1110025H02Rik,Il17f,IL17-RL,interleukin 17 receptor-like,MGI:1923564,RIKEN cDNA 1110025H02 gene	interleukin 17 receptor C	
Il18	NM_008360.1	Igfi,IL-18,interferon gamma inducing factor,MGD-MRK-36516	interleukin 18	
Il18r1	NM_001161842.1	Il18ra,IL18r,interleukin 1 receptor related protein,MGD-MRK-33052	interleukin 18 receptor 1	
Il18rap	NM_010553.4	AcPL accessory protein-like	interleukin 18 receptor accessory protein	
Il1a	NM_010554.4	Il-1a,MGD-MRK-11351,MGD-MRK-11366	interleukin 1 alpha	
Il1b	NM_008361.3	Il-1b,IL-1B,IL-1beta,MGD-MRK-11352,MGD-MRK-11367	interleukin 1 beta	
Il1r1	NM_001123382.1	CD121a,Il1r-1,IL-1R1,IL-1 receptor alpha chain,IL-R,MGD-MRK-11369,MGD-MRK-11371	interleukin 1 receptor, type I	
Il1rn	NM_031167.5	F630041P17Rik,IL-1ra,MGD-MRK-11373,MGI:2443250,RIKEN cDNA F630041P17 gene	interleukin 1 receptor antagonist	
Il2	NM_008366.3	Il-2,IL-2,MGD-MRK-11353,MGD-MRK-11374	interleukin 2	
Il21	NM_021782.2		interleukin 21	
Il21r	NM_021887.1	NIIR	interleukin 21 receptor	
Il22	NM_016971.1	IL-22,Il2if,IL-TIF,interleukin 10-related T cell-derived inducible factor	interleukin 22	Il2ifb (NM_054079)
Il23a	NM_031252.1	IL-23,IL-23p19,p19	interleukin 23, alpha subunit p19	
Il23r	NM_144548.1		interleukin 23 receptor	
Il27	NM_145636.1	IL-27,IL-27p28,Il30,interleukin 30,p28	interleukin 27	
Il27ra	NM_016671.3	IL-27R,Tcct, T cell cytokine receptor,WSX-1	interleukin 27 receptor, alpha	
Il2ra	NM_008367.2	CD25,Il2r,IL-2R alpha chain,interleukin 2 receptor,Ly-43,lymphocyte antigen 43,MGD-MRK-11375,MGD-MRK-11376,MGD-MRK-11985	interleukin 2 receptor, alpha chain	
Il2rb	NM_008368.3	CD122,IL15Rbeta,IL-15Rbeta,IL-15 receptor beta chain,IL-2/15Rbeta,IL-2Rbeta,MGD-MRK-11377	interleukin 2 receptor, beta chain	
Il2rg	NM_013563.3	CD132,common cytokine receptor gamma chain,common gamma chain,gamma(c),gammaC,gamma C receptor,gc,lgc,MGD-MRK-11378	interleukin 2 receptor, gamma chain	
Il33	NM_133775.1	9230117N10Rik,Il1f11,Il-33,NF-HEV,RIKEN cDNA 9230117N10 gene	interleukin 33	
Il4	NM_021283.1	Il-4,MGD-MRK-11355,MGD-MRK-11385	interleukin 4	
Il4ra	NM_001008700.3	CD124,Il4r,IL-4 receptor alpha chain,interleukin 4 receptor,MGD-MRK-11386,MGD-MRK-33035	interleukin 4 receptor, alpha	
Il5	NM_010558.1	Il-5,MGD-MRK-11356,MGD-MRK-11387	interleukin 5	
Il6	NM_031168.1	Il-6,MGD-MRK-11357,MGD-MRK-11391	interleukin 6	

Il6ra	NM_010559.2	CD126,IL6R,IL-6 receptor alpha chain,interleukin 6 receptor,MGD-MRK-11392,MGD-MRK-32345	interleukin 6 receptor, alpha
Il6st	NM_010560.2	5133400A03RIK,AA389424,BB405851,CD130,D13Etd699e,DNA segment, Chr 13, ERATO Doi 699, expressed,expressed sequence AA389424,expressed sequence BB405851,gp130,MGD-MRK-11393,MGI:1277187,MGI:1918567,MGI:3034594,MGI:3034705,RIKEN cDNA 5133400A03 gene	interleukin 6 signal transducer
Il7	NM_008371.2	A630026I06RIK,heart, lung and blood 368,hlb368,Il-7,MGD-MRK-11358,MGD-MRK-11394,MGI:2441812,MGI:3575125,RIKEN cDNA A630026I06 gene	interleukin 7
Il7r	NM_008372.3	CD127,IL-7Ralpha,IL-7 receptor alpha chain,MGD-MRK-11395	interleukin 7 receptor
Impdh1	NM_011829.2	B930086D20RIK,MGD-MRK-11401,MGI:2444863,RIKEN cDNA B930086D20 gene	inosine monophosphate dehydrogenase 1
Impdh2	NM_011830.3	IMP dehydrogenase type II,MGD-MRK-38412	inosine monophosphate dehydrogenase 2
Ins2	NM_008387.3	AA986540,expressed sequence AA986540,Ins-2,InsII,maturity onset diabetes of the young,maturity onset diabetes of the young 4,MGD-MRK-11411,MGD-MRK-11414,MGD-MRK-39550,MGI:109551,MGI:2141856,Mody,Mody4	insulin II
Insr	NM_010568.2	4932439I01RIK,CD220,D630014A15RIK,IR,IR-A,IR-B,MGD-MRK-11417,MGI:2442502,MGI:2443766,RIKEN cDNA 4932439I01 gene,RIKEN cDNA D630014A15 gene	insulin receptor
Irak1	NM_008363.2	AA408924,expressed sequence AA408924,Il1rak,interleukin 1 receptor-associated kinase,IRAK-1,MGD-MRK-35890,MGI:2147821,mPLK,pelle-like protein kinase,Plpk	interleukin-1 receptor-associated kinase 1
Irak2	NM_001113553.1	6330415L08RIK,AI649099,expressed sequence AI649099,IRAK-2,Irak2a,Irak2b,Irak2c,Irak2d,MGI:1922037,MGI:2141461,RIKEN cDNA 6330415L08 gene	interleukin-1 receptor-associated kinase 2
Irak4	NM_029926.5	8430405M07RIK,9330209D03RIK,IRAK-4,MGI:1918735,MGI:1924812,NY-REN-64,RIKEN cDNA 8430405M07 gene,RIKEN cDNA 9330209D03 gene	interleukin-1 receptor-associated kinase 4
Irf1	NM_008390.1	AU020929,expressed sequence AU020929,Irf-1,MGD-MRK-11464,MGD-MRK-11465,MGI:2144403	interferon regulatory factor 1
Irf2	NM_008391.2	9830146E22RIK,AI646973,expressed sequence AI646973,Irf-2,MGD-MRK-11466,MGI:2142602,MGI:2443654,RIKEN cDNA 9830146E22 gene	interferon regulatory factor 2
Irf3	NM_016849.4	C920001K05RIK,Irf-3,MGI:2441924,RIKEN cDNA C920001K05 gene	interferon regulatory factor 3
Irf4	NM_013674.1	AI385587,expressed sequence AI385587,Irf-4,MGD-MRK-29048,MGI:104895,MGI:2145221,Sfp1/PU.1 interaction partner,Spip	interferon regulatory factor 4
Irf7	NM_016850.2	interferon dependent positive acting transcription factor 3 gamma,Irf-9,Isgf3g,MGD-MRK-36159,p48	interferon regulatory factor 7
Irf9	NM_008394.2	100038882,G1p2,interferon, alpha-inducible protein,interferon-stimulated protein,MGI:3809535,predicted gene, 100038882	interferon regulatory factor 9
Isg15	NM_015783.3	1600023I01RIK,2010107M23RIK,20kDa,DnaQI,HEM45,MGI:1914966,MGI:1923946,RIKEN cDNA 1600023I01 gene,RIKEN cDNA 2010107M23 gene	ISG15 ubiquitin-like modifier
Isg20	NM_020583.5	MGD-MRK-11482,VLA-4 receptor, alpha 4 subunit	interferon-stimulated protein
Itga4	NM_010576.3	Cd49e,fibronectin receptor alpha (Itga5),Fnra,MGD-MRK-11483,MGD-MRK-9851	integrin alpha 4
Itga5	NM_001314041.1	Cd11a,CD11a antigen,LFA-1,Ly-15,Ly-21,Lymphocyte antigen 15,lymphocyte antigen 21,MGD-MRK-11485,MGD-MRK-11953,MGD-MRK-11960,MGD-MRK-1830	integrin alpha 5 (fibronectin receptor alpha)
Itgal	NM_008400.2	Cd11b,CD11b/CD18,CD11B (p170),complement component receptor 3 alpha,complement receptor type 3,CR3,F730045J24RIK,Ly-40,lymphocyte antigen 40,Mac-1,Mac-1a,Mac-1 alpha,macrophage antigen alpha chain (integrin),MGD-MRK-11486,MGD-MRK-11982,MGD-MRK-12094,MGI:2444489,RIKEN cDNA F730045J24 gene	integrin alpha L
Itgam	NM_001082960.1	AI449405,Cd11c,CD11C (p150) alpha polypeptide,expressed sequence AI449405,MGD-MRK-11488,MGI:2141963	integrin alpha M
Itgax	NM_021334.2	2E6,AI528527,Cd18,CD18 antigen,expressed sequence AI528527,Mac-1 beta,MGD-MRK-11490,MGD-MRK-1832,MGI:2143637	integrin alpha X
Itgb2	NM_008404.4	MGD-MRK-11495	integrin beta 2
Itgb7	NM_013566.2	Emt,MGD-MRK-11504,MGD-MRK-14937,Tcsk,Tsk	integrin beta 7
Itk	NM_010583.3	inositol 1,4,5-trisphosphate receptor, type III,Itp3r3,Itp3r,MGD-MRK-11440,MGD-MRK-11507,MGD-MRK-11509,MGD-MRK-15043,MGI:98711,tf,tufted	IL2 inducible T cell kinase
Itp3r	NM_080553.3	ABE2,Gsfabe2,gfs abnormal behavior	inositol 1,4,5-trisphosphate receptor 3
Jag1	NM_013822.2	Z,headturner,Headturner,Htu,MGI:1891333,MGI:2664252,MGI:3530800,Ozz,ozzy,Serrate-1	jagged 1
Jag2	NM_010588.2	D12Gc26 DNA segment, Chr 12, G. Consalez 2, expressed,MGD-MRK-14445,MGD-MRK-36557,MGD-MRK-39539,MGI:107977,MGI:109540,MGI:98321,Serh,serrate homolog (Drosophila),sm,syndactylism	jagged 2
Jak1	NM_146145.2	AA960307,BAP004, bone alkaline phosphatase mutant 004,C130039L05RIK,expressed sequence AA960307,MGD-MRK-11516,MGI:2140180,MGI:2443062,MGI:5425487,RIKEN cDNA C130039L05 gene	Janus kinase 1
Jak2	NM_008413.2	A1504024,C81284,expressed sequence A1504024,expressed sequence C81284,MGD-MRK-11517,MGI:2147569,MGI:2147795	Janus kinase 2
Jak3	NM_010589.5	MGD-MRK-16730,MGI:3584392,MGI:3584403,wil,willow	Janus kinase 3
Jun	NM_010591.2	c-jun,Jun,Jun-C oncogene,MGD-MRK-11538,MGD-MRK-11540	jun proto-oncogene
Kbtbd8	NM_001008785.5	AU040152,expressed sequence AU040152,MGI:2141580,mKIAA1842,SSEC51,SSEC-51,Takpr,T-cell activation kelch repeat protein	kelch repeat and BTB (POZ) domain containing 8
Kif22	NM_145588.1	AU021460,C81217,expressed sequence AU021460,expressed sequence C81217,Kid,Kif22a,kinesin family member 22A,MGD-MRK-38277,MGI:2142138,MGI:2142351	kinesin family member 22
Kir3dl1	NM_177749.3	Kir1,LOC245615	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1
Kir3dl2	NM_177748.2	Kir2,LOC245615	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2
Kit	NM_001122733.1	belly-spot,Bs,CD117,c-KIT,dominant spotting,Dominant white spotting,Fdc,Gfsfco1,Gfsfco5,Gfsfow3,gfs spotted coat 1,gfs spotted coat 5,MGD-MRK-11588,MGD-MRK-14609,MGD-MRK-15420,MGD-MRK-1672,MGD-MRK-9743,MGI:3530304,MGI:3530312,MGI:3530319,phenotype like Sl or W 3,SC01,SC05,SOW3,spotted sterile male,Ssm,Steel Factor Receptor,Tr-kit,W	KIT proto-oncogene receptor tyrosine kinase
Klc1	NM_001025360.2	A1874768,expressed sequence A1874768,kinesin 2,Kns2,MGD-MRK-36558,MGI:2144913	kinesin light chain 1
Klra1	NM_016659.3	Ly49a,Ly49A,Ly49o<129>,Lymphocyte antigen 49 complex, locus A,MGD-MRK-18734	killer cell lectin-like receptor, subfamily A, member 1
Klrb1	NM_001099918.1	100043861,4930431A04RIK,Gm4696,Ly55,Ly-55,lymphocyte antigen 55,MGD-MRK-11998,MGD-MRK-12041,MGI:1914651,MGI:3782876,Nkrp1g,predicted gene, 100043861,predicted gene 4696,RIKEN cDNA 4930431A04 gene	killer cell lectin-like receptor subfamily B member 1
Klrd1	NM_010654.2	CD94	killer cell lectin-like receptor, subfamily D, member 1
Klrk1	NM_001083322.1	D6H1252489E,DNA Segment, Chr 6, human D1252489E,Nkg2d,NKG2-D acute lymphocytic leukemia,A11,ALL-1,Coxc7,HTRX1,MGD-MRK-12254,MGD-MRK-1281,M11,M11,myeloid/lymphoid or mixed-lineage leukemia,myeloid/lymphoid or mixed-lineage leukemia 1,trithorax	killer cell lectin-like receptor subfamily K, member 1
Kmt2a	NM_001081049.1	Drosophila	lysine (K)-specific methyltransferase 2A
Kras	NM_021284.5	A1929937,expressed sequence A1929937,Ki-ras,Kirsten rat sarcoma oncogene 2, expressed,K-ras,Kras-2,MGD-MRK-11597,MGD-MRK-11601,MGI:2141518	Kirsten rat sarcoma viral oncogene homolog
Lag3	NM_008479.1	CD223,LAG-3,Ly66,Lymphocyte antigen 66,MGD-MRK-35044	lymphocyte-activation gene 3
Lat	NM_010689.2		linker for activation of T cells

Lbp	NM_008489.2	Bpifd2	lipopolysaccharide binding protein
Lif	NM_008501.2	MGD-MRK-11807	leukemia inhibitory factor
Lilra5	NM_001081239.2	EG232801,Gm4878,predicted gene 4878,predicted gene, EG232801 CD85k,glycoprotein 49 B,Gp49b,HLA18,ILT3,leukocyte immunoglobulin-like receptor, subfamily B, member 4,Lilrb4,MGD-MRK-19605	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5
Lilrb4a	NM_013532.3	fatty liver dystrophy,flid,Lipin1,MGD-MRK-9822,MGI:1354179,MGI:95552,mKIAA0188	leukocyte immunoglobulin-like receptor, subfamily B, member 4A
Lpin1	NM_172950.3	2410005L11RIK,AU021780,expressed sequence AU021780,LRR-1,MGI:2144954,peptidylprolyl isomerase (cyclophilin) like 5,Ppil5,RIKEN cDNA 2410005L11 gene	lipin 1
Lrr1	NM_001081406.1	AA409966,AW555107,D630045E04RIK,D730026A16RIK,expressed sequence AA409966,expressed sequence AW555107,MGI:2140149,MGI:2140600,MGI:2441986,MUF1,RIKEN cDNA D630045E04 gene,RIKEN cDNA D730026A16 gene	leucine rich repeat protein 1
Lrrc41	NM_153521.1	heart, lung and blood 382,hb382,LT,LT-[a],[L]T[a],LTalpha,LT-alpha,Ltx,lymphotoxin,lymphotoxin alpha,MGD-MRK-11928,MGD-MRK-15153,MGD-MRK-28089,MGI:3575121,Tnfb,TNF beta,TNF-beta,Tnfsf1b,tumor necrosis factor beta	leucine rich repeat containing 41
Lta	NM_010735.2	Al662801,expressed sequence Al662801,LTbeta,lymphotoxin beta,MGD-MRK-16192,MGD-MRK-28088,MGI:2146913,p33,Tnfc,Tnfsf3,tumor necrosis factor C	lymphotoxin A
Ltb	NM_008518.2	9430031G15RIK,b2b1000Clo,LTBP-1,Ltbp1L,MGD-MRK-38195,MGI:1924572,MGI:5316769,Mutant line 1000,RIKEN cDNA 9430031G15 gene	lymphotoxin B
Ltbp1	NM_019919.2	lactoferrin,Lf,MGD-MRK-11899	latent transforming growth factor beta binding protein 1
Ltf	NM_008522.3	AA682074,AA959465,expressed sequence AA682074,expressed sequence AA959465,Ly6c,Ly-6C,lymphocyte antigen 6 complex, locus C,lymphocyte antigen 6, subunit C,MGD-MRK-12005,MGD-MRK-12048,MGI:2145928,MGI:2145929	lactotransferrin
Ly6c1	NM_010741.3	Gr1,Gr-1,Ly-6G,MGD-MRK-38485	Ly6a (NM_001271417;NM_010738;NM_001271419;NM_001271416)
Ly6g	XM_909927.2	ESOP-1,MD2,MD-2,myeloid differentiation factor-2	lymphocyte antigen 6 complex, locus C1
Ly96	NM_016923.1	AA407514,expressed sequence AA407514,Hck-2,hemopoietic cell kinase 2,MGD-MRK-10668,MGD-MRK-12071,MGI:2140121,Yamaguchi sarcoma viral (v-yes-1) oncogene homolog	lymphocyte antigen 6 complex, locus G
Lyn	NM_010747.2	2810401A20RIK,A230108G15RIK,AW047063,c-maf,expressed sequence AW047063,MGD-MRK-12101,MGI:1925586,MGI:2142746,MGI:2444997,RIKEN cDNA 2810401A20 gene,RIKEN cDNA A230108G15 gene	LYN proto-oncogene, Src family tyrosine kinase
Maf	NM_001025577.2	2810433C11RIK,5430405L04RIK,Dlxin-1,DNA segment, Chr X, Brigham & Women's Genetics 1492 expressed,DXBwg1492e,MAGE-D1,MGD-MRK-35682,MGI:107217,MGI:1917220,MGI:1922987,Nrage,RIKEN cDNA 2810433C11 gene,RIKEN cDNA 5430405L04 gene	avian musculoaponeurotic fibrosarcoma oncogene homolog
Maged1	NM_019791.2	D430033E09RIK,paracaspase,Pcasp1,RIKEN cDNA D430033E09 gene	melanoma antigen, family D, 1
Malt1	NM_172833.2	AV234550,BC049812,cDNA sequence BC049812,expressed sequence AV234550,MGI:2139941,MGI:3055089	MALT1 paracaspase
Maml3	NM_001004176.2	AW107687,expressed sequence AW107687,lysosomal alpha-mannosidase,MGD-MRK-35751,MGI:2142759	mastermind like transcriptional coactivator 3
Man2b1	NM_010764.2	MAP kinase kinase 1,Mek1,MGD-MRK-19441,MGD-MRK-19443,MGI:102562,Prkmk1,protein kinase, mitogen activated, kinase 1, p45	mannosidase 2, alpha B1
Map2k1	NM_008927.3	C87327,EST C87327,MGI:1203726,MGI:2135559,Tak1,TAK1,TGF-beta activated kinase 1,TGF-beta-activated kinase 1,transforming growth factor beta-activated kinase 1,transforming growth factor-beta-activated kinase 1	mitogen-activated protein kinase kinase 1
Map3k14	NM_016896.3	A1385662,BL44,expressed sequence A1385662,MGD-MRK-37069,MGI:108033,MGI:2147514,RAB8 interacting protein,Rab8ip P38b,p38beta,Prkm11,protein kinase, mitogen activated kinase, 11, p38beta,Sapk2	mitogen-activated protein kinase kinase kinase 14
Map3k7	NM_172688.2	AW123708,Erk6,expressed sequence AW123708,MGI:2146196,P38gamma,Prkm12,Sapk3	mitogen-activated protein kinase kinase kinase 7
Map4k2	NM_009006.2	CDX2-related kinase 1,Crk1,Csbp1,CSBP2,cytokine suppressive anti-inflammatory drug binding protein 1,MGD-MRK-2145,MGI:1338028,MGI:88502,Mwi2,p38,p38a,p38alpha,p38-p38-alpha,p38MAPK,p38 MAPK,p38 MAP Kinase,p38 MAP kinase alpha,BC048982,cDNA sequence BC048982,MGC:56865,MGC:56903	mitogen-activated protein kinase kinase kinase 2
Mapk11	NM_011161.5	elk related tyrosine kinase 1,Erk1,Erk-1,Erk1,extra cellular signal regulated kinase 1,MGD-MRK-12586,MGD-MRK-33597,MGD-MRK-9583,MGD-MRK-9654,MGI:105920,MGI:95451,MGI:97176,microtubule-associated protein 2 kinase,microtubule-associated protein-2 kinase,Mtap2k,p44erk1,p44mapk,p44 MAP kinase,Prkm3,protein kinase, mitogen activated kinase 3	mitogen-activated protein kinase 11
Mapk12	NM_013871.3	b2b2346Clo,big MAP kinase 1,BMK1,ERKS,Erk5-T,MGI:5554536,Mutant line 2346	mitogen-activated protein kinase 12
Mapk14	NM_011951.2	A1874665,expressed sequence A1874665,MK3	mitogen-activated protein kinase 14
Mapk15	NM_177922.2	cGAS,E330016A19RIK,RIKEN cDNA E330016A19 gene	mitogen-activated protein kinase 15
Mapk3	NM_011952.2	C76307,expressed sequence C76307,expressed sequence R75289,golli-mbp,hemopoietic myelin basic protein related,Hmbpr,jive,jive,MGD-MRK-10746,MGD-MRK-12126,MGD-MRK-12253,MGD-MRK-14404,MGI:2147393,MGI:2147422,MGI:3708158,mld,myelin deficient,R75289,shi,shiverer	mitogen-activated protein kinase 3
Mapk7	NM_011841.1	AW556805,expressed sequence AW556805,Mci-1,MGD-MRK-18576,MGI:2140009	mitogen-activated protein kinase 7
Mapk-ak3	NM_178907.3	1700007115RIK,AA415488,expressed sequence AA415488,Mdm-2,MGD-MRK-12169,MGD-MRK-12172,MGI:1916580,MGI:2143477,RIKEN cDNA 1700007115 gene	mitogen-activated protein kinase-activated protein kinase 3
Mb21d1	NM_173886.4	A430079H05RIK,MGD-MRK-16310,MGI:2445167,RIKEN cDNA A430079H05 gene	Mab-21 domain containing 1
Mbp	NM_010777.3	C76307,expressed sequence C76307,expressed sequence R75289,golli-mbp,hemopoietic myelin basic protein related,Hmbpr,jive,jive,MGD-MRK-10746,MGD-MRK-12126,MGD-MRK-12253,MGD-MRK-14404,MGI:2147393,MGI:2147422,MGI:3708158,mld,myelin deficient,R75289,shi,shiverer	myelin basic protein
Mci1	NM_008562.3	AW556805,expressed sequence AW556805,Mci-1,MGD-MRK-18576,MGI:2140009	myeloid cell leukemia sequence 1
Mdm2	NM_010786.4	1700007115RIK,AA415488,expressed sequence AA415488,Mdm-2,MGD-MRK-12169,MGD-MRK-12172,MGI:1916580,MGI:2143477,RIKEN cDNA 1700007115 gene	transformed mouse 3T3 cell double minute 2
Mef2a	NM_001033713.1	A430079H05RIK,MGD-MRK-16310,MGI:2445167,RIKEN cDNA A430079H05 gene	myocyte enhancer factor 2A
Mefv	NM_001161790.1	FMF,marenostrin,pyrin,TRIM20	Mediterranean fever
Milt3	NM_027326.3	2210011H10RIK,2610012I03RIK,3830408D16RIK,Af9,D4Erd321e,DNA segment, Chr 4, ERATO Doi 321, expressed,MGI:1196448,MGI:1919694,MGI:1924826,RIKEN cDNA 2210011H10 gene,RIKEN cDNA 2610012I03 gene,RIKEN cDNA 3830408D16 gene	myeloid/lymphoid or mixed-lineage leukemia; translocated to, 3
Mmp3	NM_010809.1	MGD-MRK-12280,MGD-MRK-14627,progelatinase,SLN1,SLN-1,Stmy1,Str1-STR-1,stromelysin 1,stromelysin-1	matrix metalloproteinase 3
Mmp9	NM_013599.2	AW743869,B/MMP9,Cig4b,collagenase IVB, basement membrane, 92 kDa,expressed sequence AW743869,gelatinase B,Gelatinase B,Gel B,MGD-MRK-12281,MGD-MRK-2014,MGI:2139414,MMP-9	matrix metalloproteinase 9
Mpo	NM_010824.2	MGD-MRK-12530	myeloperoxidase
Mpv17	NM_001310527.1	MGD-MRK-12532,MGD-MRK-15057,Tg,Mpv17	Mpv17 mitochondrial inner membrane protein
Mpz	NM_008623.4	MGD-MRK-12531,MGD-MRK-24045,Mpp,P0,peripheral myelin protein	myelin protein zero
Mpz1	NM_001001880.2	1110007A10RIK,RIKEN cDNA 1110007A10 gene	myelin protein zero-like 1
Ms4a1	NM_007641.5	AA960661,Cd20,CD20 antigen,expressed sequence AA960661,Ly-44,lymphocyte antigen 44,MGD-MRK-11986,MGD-MRK-1838,MGI:2147465	membrane-spanning 4-domains, subfamily A, member 1
Ms4a2	NM_001276330.1	Fce1b,Fc epsilon high affinity receptor beta,Fcer1b,FcRb,FcRbeta,Fc receptor, IgE, high affinity I, beta polypeptide,MGD-MRK-9725,MGD-MRK-9729	membrane-spanning 4-domains, subfamily A, member 2
Ms4a4a	XM_003086124.1	EG666907,predicted gene,EG666907	membrane-spanning 4-domains, subfamily A, member 4A
Msn	NM_010833.2	C78546,expressed sequence C78546,MGD-MRK-12566,MGI:2148057	moesin

P2rx4	NM_011026.2	A1504491,AW555605,D5Ert444e,DNA segment, Chr 5, ERATO Doi 444, expressed,expressed sequence A1504491,expressed sequence AW555605,MGI:1196264,MGI:2140926,MGI:2141234,P2X4 A1467586,expressed sequence A1467586,MGI:2140909,P2(X)7,P2X7R,P2X7	purinergic receptor P2X, ligand-gated ion channel 4
P2rx7	NM_001038839.2	MGD-MRK-13221,MGI:97534,mKIAA0994,PAD type II,Pdi,Pdi2,peptidyl arginine deiminase	purinergic receptor P2X, ligand-gated ion channel, 7
Padi2	NM_008812.2	MGD-MRK-13221,MGI:97534,mKIAA0994,PAD type II,Pdi,Pdi2,peptidyl arginine deiminase	peptidyl arginine deiminase, type II
Padi4	NM_011061.2	Pad4,PAD type IV,Pdi4	peptidyl arginine deiminase, type IV
Panx1	NM_019482.2	A1847747,expressed sequence A1847747,MGI:2143143	pannexin 1
Pard3	NM_001013581.2	AA960621,A1256638,ASIP,D8Ert580e,DNA segment, Chr 8, ERATO Doi 580, expressed,expressed sequence AA960621,expressed sequence A1256638,MGI:1261826,MGI:2142456,MGI:2142486,Par3,PAR-3,Pard3a	par-3 family cell polarity regulator
Park2	NM_016694.3	Parkin,PRKN	Parkinson disease (autosomal recessive, juvenile) 2, parkin
Parp1	NM_007415.2	5830444G22Rik,ADP-ribosyltransferase (NAD+, poly (ADP-ribose) polymerase) 1,Adprp,Adprt1,A1893648,C80510,expressed sequence A1893648,expressed sequence C80510,MGD-MRK-1132,MGI:2138374,MGI:2138692,MGI:87933,PARP,parp-1,poly (ADP-ribose)	poly (ADP-ribose) polymerase family, member 1
Pax5	NM_008782.2	EBB-1,MGD-MRK-13148,MGD-MRK-13157,Pax-5 mel-18,Mel18,MGD-MRK-15913,ring finger protein 110,Rnf110,Zfp144,zinc finger protein 144	paired box 5
Pcgef2	NM_009545.2	MGD-MRK-13206,MGD-MRK-29032,PD-1,Pdc1,programmed cell death B7-DC,Btdc,F730015O22Rik,MGI:2442044,PD-L2,RIKEN cDNA F730015O22	polycomb group ring finger 2
Pdcd1	NM_008798.1	MGD-MRK-13206,MGD-MRK-29032,PD-1,Pdc1,programmed cell death B7-DC,Btdc,F730015O22Rik,MGI:2442044,PD-L2,RIKEN cDNA F730015O22	programmed cell death 1
Pdcd1lg2	NM_021396.2	gene	programmed cell death 1 ligand 2
Pdpm	NM_010329.2	glycoprotein 38,Gp38,MGD-MRK-23962,OTS-8,PA2.26,RANDAM-2,T1a,T1alpha	podoplanin
Pf4	NM_019932.4	chemokine (C-X-C motif) ligand 4,Cxcl4,Scyb4 6330412C24Rik,caPI3K,MGI:1917992,p110alpha,RIKEN cDNA 6330412C24	platelet factor 4
Pik3ca	NM_008839.1	gene	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
Pik3cd	XM_003945690.1	2410099E07Rik,2610208K16Rik,AW545373,expressed sequence AW545373,MGI:1917688,MGI:1925744,MGI:2140589,p110delta,RIKEN cDNA 2410099E07 gene,RIKEN cDNA 2610208K16 gene	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
Pik3r2	NM_008841.2	p85beta	phosphoinositide-3-kinase regulatory subunit 2
Pkm	NM_011099.2	AA414905,AL024370,AL024424,expressed sequence AA414905,expressed sequence AL024370,expressed sequence AL024424,MGD-MRK-13319,MGD-MRK-13320,MGD-MRK-13322,MGI:2143183,MGI:2143184,MGI:2144733,Pk-2,Pk3,Pk-3,Pkm2,pyruvate kinase,pyruvate kinase 3	pyruvate kinase, muscle
Plaur	NM_011113.3	Cd87,MGD-MRK-13348,uPAR,uPAR,urokinase-type plasminogen activator receptor	plasminogen activator, urokinase receptor
Plcb1	NM_019677.2	3110043I21Rik,A1132408,expressed sequence A1132408,MGD-MRK-13351,MGI:1920444,MGI:2138844,mKIAA0581,RIKEN cDNA 3110043I21 gene	phospholipase C, beta 1
Plcb2	NM_177568.2	A1503384,B230205M18Rik,expressed sequence A1503384,MGD-MRK-35937,MGI:2139001,MGI:3036256,RIKEN cDNA B230205M18 gene	phospholipase C, beta 2
Plcg1	NM_021280.3	A1894140,Cded,cell differentiation and embryonic development,expressed sequence A1894140,MGD-MRK-13350,MGD-MRK-13353,MGD-MRK-13355,MGI:2139022,MGI:2139113,phospholipase C, subtype 148,Plc-1,Plcg-1,Plc-gamma1	phospholipase C, gamma 1
Plcg2	NM_172285.1	MGC:38590,MGD-MRK-13354,MGD-MRK-13356,Plcg-2,PLCGamma2	phospholipase C, gamma 2
Pld3	NM_011116.1	Sam-9	phospholipase D family, member 3
Pleckhb2	NM_175421.1	2310009M15Rik,AU018239,evt-2,expressed sequence AU018239,MGI:1924835,MGI:2138415,Phdc,RIKEN cDNA 2310009M15 gene	pleckstrin homology domain containing, family B (evectins) member 2
Pnoc	NM_001205075.1	MGD-MRK-32349,N23K,neuropeptide nociceptin 1,N/OFQ,Npnc1,OFQ/N,proorphanin	prepronociceptin
Poir1c	NM_009085.2	40KDa,AA409007,AA959927,AL024089,expressed sequence AA409007,expressed sequence AA959927,expressed sequence AL024089,MGD-MRK-24170,MGI:2146755,MGI:2146784,MGI:2146961,RNA polymerase 1-1,RPA40,Rpo1-1	polymerase (RNA) I polypeptide C
Poir1d	NM_009087.1	1110003G10Rik,16KDa,AU018636,C81327,expressed sequence AU018636,expressed sequence C81327,MGD-MRK-37446,MGI:2141038,MGI:2141323,MGI:2447827,mRPA16,RIKEN cDNA 1110003G10 gene,RNA polymerase 1-3,Rpo1-3	polymerase (RNA) I polypeptide D
Poir3d	NM_001164082.1	2810426M17Rik,44KDa,A1326118,AW489084,BNS1T,expressed sequence A1326118,expressed sequence AW489084,MGI:2145623,MGI:2145815,RIKEN cDNA 2810426M17 gene,RPC4,TSBN51	polymerase (RNA) III (DNA directed) polypeptide D
Poir3h	NM_030229.4	5031409G22Rik,RIKEN cDNA 5031409G22 gene,RPC8	polymerase (RNA) III (DNA directed) polypeptide H
Pomc	NM_008895.3	ACTH,adrenal corticotrophic hormone,alpha-melanocyte stimulating hormone,alpha-MSH,alpha-MSH,βE,beta-endorphin,beta-melanocyte stimulating hormone,beta-MSH,gamma-melanocyte stimulating hormone,gamma-MSH,MGD-MRK-13580,MGD-MRK-13582,Pomc-1	pro-opiomelanocortin-alpha
Pou2f2	NM_001163556.1	MGD-MRK-12975,MGD-MRK-13062,MGD-MRK-13069,MGD-MRK-18724,Oct-2,Oct2a,Oct2b,Oct2c,Oct2d,octamer binding transcription factor 2,Oct2,Oct-2 MGD-MRK-13589,Nr1c3,PPARgamma,PPAR-gamma,Ppar-gamma2,PPARGamma2	POU domain, class 2, transcription factor 2
Pparg	NM_011146.1	2400003M24Rik,A1854500,beta-TG,b-TG1,chemokine (C-X-C motif) ligand 7,CTAP3,CTAPII,Cxcl7,expressed sequence A1854500,LA-PF4,LDFG,MDFG,MGI:1922842,MGI:2141003,NAP-2,NAP-2-L1,RIKEN cDNA 2400003M24 gene,Scyb7,TG8,TG81,THBG81	peroxisome proliferator activated receptor gamma
Ppbp	NM_023785.2	2400003M24 gene,Scyb7,TG8,TG81,THBG81	pro-platelet basic protein
Ppp2r5d	NM_009358.3	B'delta,MGI:1096565,TEG-271,testis expressed gene 271,Tex271 b2b1765Clo,Blimp1,Blimp-1.B lymphocyte induced maturation protein,MGD-MRK-16440,MGI:5446148,Mutant line 1765,PRDI-BF1	protein phosphatase 2, regulatory subunit B', delta
Prdm1	NM_007548.3	AL022839,expressed sequence AL022839,MGD-MRK-39485,MGI:2138384,protector protein,PRP,PrxII,Prx II-1,Tdpx1,thiol specific antioxidant protein,thioredoxin dependent peroxide reductase 1,thioredoxin peroxidase,thioredoxin peroxidase 1,thioredoxin reductase,Tpx,TR,Tx dependent peroxide reductase 1,TSA	PR domain containing 1, with ZNF domain
Prdx2	NM_011563.5	MGD-MRK-13251,MGD-MRK-13605,perforin,perforin 1,Pfn,Pfp,pore forming protein,Prf-1	peroxiredoxin 2
Prf1	NM_011073.2	MGD-MRK-13251,MGD-MRK-13605,perforin,perforin 1,Pfn,Pfp,pore forming protein,Prf-1	perforin 1 (pore forming protein)
Prkcd	NM_011103.2	A1385711,D14Ert420e,DNA segment, Chr 14, ERATO Doi 420, expressed,expressed sequence A1385711,MGD-MRK-13330,MGI:1196301,MGI:2145627,Pkcd,PKC(d),PKCdelta	protein kinase C, delta
Prkcq	NM_008859.2	A130035A12Rik,AW494342,expressed sequence AW494342,MGD-MRK-13333,MGI:2139356,MGI:2442369,PKC-0,Pkq,PKCtheta,PKC theta,PKC-theta,RIKEN cDNA A130035A12 gene	protein kinase C, theta
Prkdc	NM_011159.2	A1326420,AU019811,DNAPDCs,DNA-PK,DNA-PKs,DOXNPH,doxorubicin nephropathy,dxnp,expressed sequence A1326420,expressed sequence AU019811,MGD-MRK-14312,MGD-MRK-28071,MGI:2146417,MGI:2146554,MGI:3574416,scid,severe combined immunodeficiency,slp,XRCC7	protein kinase, DNA activated, catalytic polypeptide
Prmt5	NM_013768.3	Jak-binding protein 1,Jbp1,Skb1,SKB1 homolog (S. pombe)	protein arginine N-methyltransferase 5
Prosl1	NM_011173.2	AW214361,expressed sequence AW214361,MGI:2146630,protein 5 AA08851,AU015605,expressed sequence AA08851,expressed sequence AU015605,MGI:2140137,PC4 and SFRS1 interacting protein 2,Psp12	protein 5 (alpha)
Psp1	NM_133948.4	AU015605,MGI:2140137,PC4 and SFRS1 interacting protein 2,Psp12	PC4 and SFRS1 interacting protein 1
Psmb10	NM_013640.3	Mec11,Mec1-1	proteasome (prosome, macropain) subunit, beta type 10
Psmb8	NM_010724.2	large multifunctional protease 7,Lmp7,Lmp-7,low molecular weight polypeptide 7,MGD-MRK-11822,MGD-MRK-11824,MGI:96798	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)
Psmb9	NM_013585.2	large multifunctional protease 2,Lmp2,Lmp-2,low molecular weight polypeptide 2,MGD-MRK-11821,MGD-MRK-11823,MGI:96797	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)
Pstpip1	NM_011193.2	CD28P1,def-2	proline-serine-threonine phosphatase-interacting protein 1

		2310035007Rik,A130070J02Rik,AI463227,B430203M17Rik,expressed sequence AI463227,MGD-MRK-39582,MGI:1917411,MGI:2147557,MGI:2443558,MMAC1,RIKEN cDNA 2310035007 gene,RIKEN cDNA A130070J02 gene,RIKEN cDNA B430203M17 gene,TEP1	phosphatase and tensin homolog
Pten	NM_008960.2		
Ptger4	NM_008965.1	EP4,MGD-MRK-25639,prostaglandin E receptor EP4 subtype,Ptger4 Cox-2,COX2,cyclooxygenase 2,cyclooxygenase-2,MGD-MRK-13665,Pghs2,PGHS-2,PHS-2,prostaglandin G/H synthase,Tis10	prostaglandin E receptor 4 (subtype EP4)
Ptgs2	NM_011198.3		prostaglandin-endoperoxide synthase 2
Ptk2	NM_007982.2	Fadk,FAK,focal adhesion kinase,FRNK,MGD-MRK-9708	PTK2 protein tyrosine kinase 2
		CAKbeta,calcium-dependent tyrosine kinase,cellular adhesion kinase beta,E430023005Rik,MGD-MRK-29062,MGI:2444305,proline-rich tyrosine kinase 2,PYK2,Raftk,related adhesion focal tyrosine kinase,RIKEN cDNA E430023005 gene	PTK2 protein tyrosine kinase 2 beta
Ptk2b	NM_001162365.1	2700084A17Rik,AW536184,expressed sequence AW536184,MGD-MRK-16288,MGI:1919896,MGI:2141206,PTP1D,PTP2C,RIKEN cDNA 2700084A17 gene,SH2 domain-containing protein tyrosine phosphatase-2,Shp2,SHP-2,SH-PTP2,5yp	
Ptpn11	NM_011202.3		protein tyrosine phosphatase, non-receptor type 11
Ptpn18	NM_011206.2	FLP1,HSCF,MGD-MRK-37453,PTP-HSCF,Ptpk1,PTP-K1	protein tyrosine phosphatase, non-receptor type 18
		70zpep,MGD-MRK-35631,protein tyrosine phosphatase, non-receptor type 8,Ptpn8	
Ptpn22	NM_008979.1		protein tyrosine phosphatase, non-receptor type 22 (lymphoid)
Ptpn6	NM_013545.2	hpc,Hcp,hemopoietic cell phosphatase,me,MGD-MRK-10672,MGD-MRK-12181,motheaten,Ptp1C,SHP-1,Spin	protein tyrosine phosphatase, non-receptor type 6
		B220,Cd45,CD45,CD45 antigen,Ly-5,lymphocyte antigen 5,Lyt-4,MGD-MRK-11992,MGD-MRK-12076,MGD-MRK-13679,MGD-MRK-1864,MGI:3584395,T200,T-lymphocyte antigen 4	
Ptpnc	NM_011210.3	3830421F03Rik,CD155,D7Erd458e,DNA segment, Chr 7, ERATO Doi 458, expressed,mE4,MGD-MRK-36317,MGI:1196266,MGI:1917954,necl-5,RIKEN cDNA 3830421F03 gene,Taa1,Tage4,tumor-associated antigen 1	protein tyrosine phosphatase, receptor type, C
Pvr	NM_027514.2		poliovirus receptor
Pycard	NM_023258.4	9130417A21Rik,Asc,MGI:1914074,RIKEN cDNA 9130417A21 gene,TMS-1	PYD and CARD domain containing
		AL023026,D5Erd559e,DNA segment, Chr 5, ERATO Doi 559, expressed,expressed sequence AL023026,MGD-MRK-13748,MGI:1261850,MGI:2141016	
Rac1	NM_009007.2		RAS-related C3 botulinum substrate 1
Rag2	NM_009020.3	MGD-MRK-13754,MGD-MRK-13756,Rag-2	recombination activating gene 2
		AI848598,expressed sequence AI848598,Kirsten sarcoma revertant 1,Krev-1,MGD-MRK-11607,MGD-MRK-13761,MGI:2139815,Rap1	
Rap1a	NM_145541.4		RAS-related protein 1a
		5430417P09Rik,AI662122,expressed sequence AI662122,MGI:2139776,RIKEN cDNA 5430417P09 gene	
Rarres1	NM_001164763.1	1300019G20Rik,AU042887,expressed sequence AU042887,MGI:1921412,MGI:2138497,Nore1A,Nore1B,Rap1,RIKEN cDNA 1300019G20 gene	retinoic acid receptor responder (tazarotene induced) 1
		1300019G20 gene	
Rassf5	NM_018750.3		Ras association (RalGDS/AF-6) domain family member 5
Rb1	NM_009029.2	MGD-MRK-13784,MGD-MRK-13785,pRb,Rb,Rb-1,retinoblastoma 1	RB transcriptional corepressor 1
		AI843960,CBF1,expressed sequence AI843960,Igkjrj,Igk recombining segment binding protein,Igkrsbp,MGD-MRK-11327,MGI:2140979,RBPJ,RBP-J kappa,Rbpsuh,recombining binding protein suppressor of hairless (Drosophila)	
Rbpj	NM_001080927.1		recombination signal binding protein for immunoglobulin kappa J region
Rela	NM_009045.4	MGD-MRK-24172,p65,p65 NF kappaB	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
Relb	NM_009046.2	MGD-MRK-24171,MGI:4838325,shep,spontaneous hepatitis aplysia ras homolog A,Arha,Arha1,Arha2,MGI:1355308,ras homolog gene family, member A,ras homolog gene family, member A1,ras homolog gene family, member A2	avian reticuloendotheliosis viral (v-rel) oncogene related B
Rhoa	NM_016802.4		ras homolog family member A
Ripk1	NM_009068.3	MGD-MRK-37251, receptor interacting protein,Rinp,Rip1	receptor (TNFRSF)-interacting serine-threonine kinase 1
		2210420D18Rik,CARD3,CARDIAK,CCK,D4Bwg0615e,DNA segment, Chr 4, Brigham & Women's Genetics 0615 expressed,MGD-MRK-34205,MGI:106511,MGI:1917420,RICK,RIKEN cDNA 2210420D18 gene,RIP2	
Ripk2	NM_138952.3		receptor (TNFRSF)-interacting serine-threonine kinase 2
		2610528K09Rik,AW107945,expressed sequence AW107945,MGI:1923812,MGI:2145796,RIKEN cDNA 2610528K09 gene,Rip3	
Ripk3	NM_019955.1		receptor-interacting serine-threonine kinase 3
Rnaseh2a	NM_027187.3	2400006P09Rik,RIKEN cDNA 2400006P09 gene	ribonuclease H2, large subunit
Rnf126	NM_144528.3	2610010019Rik,RIKEN cDNA 2610010019 gene	ring finger protein 126
		1110055K06Rik,MGD-MRK-36507,MGI:1916035,RIKEN cDNA 1110055K06 gene,Rock-1	
Rock1	NM_009071.2		Rho-associated coiled-coil containing protein kinase 1
		B230113H15Rik,MGD-MRK-36506,MGI:1925098,Rho-kinase,RIKEN cDNA B230113H15 gene,Rock2m,Rock-II,ROKalpha	
Rock2	NM_009072.2	9530021D13Rik,MGD-MRK-14383,MGD-MRK-26101,MGI:2442931,MGI:2670426,MGI:3054678,neuroscience mutagenesis facility, 267,nmf267,Nr1f1,RIKEN cDNA 9530021D13 gene,sg,staggerer,Tennessee Mouse Genome Consortium 26,tmc26	Rho-associated coiled-coil containing protein kinase 2
		MGD-MRK-28153,RORgamma,Thor,thymus orphan receptor 3110005L17Rik,6330404E13Rik,AI854034,expressed sequence AI854034,MGI:1917998,MGI:2144911,MSK1,RIKEN cDNA 3110005L17 gene,RIKEN cDNA 6330404E13 gene	
Rora	NM_013646.1		sub-maximal transcript coverage due to non-overlapping transcripts
Rorc	NM_011281.2	2610010E12Rik,C86394,expressed sequence C86394,MGI:2142366,RIKEN cDNA 2610010E12 gene,TC21	RAR-related orphan receptor gamma
		2510004L01Rik,cigs,MGI:1919695,RIKEN cDNA 2510004L01 gene,Vig1,viperin	
Rrs2	NM_025846.2		related RAS viral (r-ras) oncogene 2
Rsa2	NM_021384.2	6088Ag,AI323541,B8Ag,Caga,calgranulin A,CFAg,CP-10,expressed sequence AI323541,MGD-MRK-1725,MGI:2139672,MRP8,p8	radical S-adenosyl methionine domain containing 2
S100a8	NM_013650.2	6088Ag,AW546964,BEE22,Cagb,calgranulin B,expressed sequence AW546964,GAGB,L1Ag,MGD-MRK-1726,MGI:2139998,MGI:88245,MRP14,p14	S100 calcium binding protein A8 (calgranulin A)
S100a9	NM_009114.3		S100 calcium binding protein A9 (calgranulin B)
S100b	NM_009115.3	AI850290,expressed sequence AI850290,MGD-MRK-14269,MGI:2143688	S100 protein, beta polypeptide, neural
		AI849002,Edg1,endothelial differentiation sphingolipid G-protein-coupled receptor 1,endothelial differentiation sphingolipid G-protein-coupled receptor 1,expressed sequence AI849002,MGI:2139817,S1P,S1P1	
S1pr1	NM_007901.4		sphingosine-1-phosphate receptor 1
S1pr4	NM_010102.2	Edg6,endothelial differentiation, G-protein-coupled receptor 6,IpC1,S1P4	sphingosine-1-phosphate receptor 4
		Edg8,endothelial differentiation, sphingolipid G-protein-coupled receptor, 8,IpB4,S1P5	
S1pr5	NM_053190.2		sphingosine-1-phosphate receptor 5
		2310075M17Rik,2900019I22Rik,MGI:1920195,RIKEN cDNA 2310075M17 gene,RIKEN cDNA 2900019I22 gene,SAR1a gene homolog 2 (S. cerevisiae),Sara2	
Sar1b	NM_025535.2		secretion associated Ras related GTPase 1B
		BC019206,cDNA sequence BC019206,Stno,strawberry notch homolog (Drosophila)	
Sbno2	NM_183426.1		strawberry notch 2
		AA408134,AA409076,CD138,expressed sequence AA408134,expressed sequence AA409076,MGD-MRK-14682,MGD-MRK-14686,MGI:2144723,MGI:2144725,MGI:98464,syn-1,Synd,Synd1,syndecan CD62E,Elam,endothelial adhesion molecule,E-selectin,MGD-MRK-14357,MGD-MRK-9356	
Sdc1	NM_011519.2		syndecan 1
		liver protein, selenium binding, 56 kDa,Lp56,Lpsb,MGD-MRK-11868,MGD-MRK-11880	
Sele	NM_011345.2		selectin, endothelial cell
Selenbp1	NM_009150.3		selenium binding protein 1
		AI528707,CD62L,expressed sequence AI528707,LECAM-1,Lnhr,L-selectin,Ly-22,Lyam-1,Lyam-1,Ly-m22,Lymph node homing receptor,lymphocyte adhesion molecule 1,lymphocyte antigen 22,lymphocyte antigen m22,MGD-MRK-11841,MGD-MRK-11961,MGD-MRK-12014,MGD-MRK-12052,MGD-MRK-12053,MGD-MRK-14358,MGI:2138287	
Sell	NM_001164059.1		selectin, lymphocyte
		Aat2,Aat-2.alpha-1-antitrypsin 2,MGD-MRK-1012,MGD-MRK-1013,MGI:87857,P11,serine protease inhibitor 1-1,Spl1-1	
Serpina1a	NM_009243.4		serine (or cysteine) peptidase inhibitor, clade A, member 1A
		AI747498.alpha 2 antipainin,expressed sequence AI747498,MGD-MRK-35634,MGI:2144263,plasmin inhibitor alpha 2,Pli	
Serpinf2	NM_008878.2		serine (or cysteine) peptidase inhibitor, clade F, member 2
Serpin1	NM_009776.3	C1INH,C1 inhibitor,C1nh,complement component 1 inhibitor	serine (or cysteine) peptidase inhibitor, clade G, member 1
Sgk1	NM_001161845.2	serum/glucocorticoid regulated kinase,Sgk	serum/glucocorticoid regulated kinase 1
Sh2d1a	NR_132588.1	Duncan disease homolog,SAP	SH2 domain containing 1A
Sigirr	NM_023059.3	AI256711,expressed sequence AI256711,MGI:2141892,Tir8	single immunoglobulin and toll-interleukin 1 receptor (TIR) domain

Siglec1	NM_011426.3	CD169, MGD-MRK-16453, sialoadhesin, Siglec-1, Sn	sialic acid binding lg-like lectin 1, sialoadhesin
SiglecF	NM_145581.1	mSiglec-F, sialic acid binding lg-like lectin 5, Siglec5	sialic acid binding lg-like lectin F
Sipa1	NM_001164480.1	MGD-MRK-36148, SPA-1	signal-induced proliferation associated gene 1
Sirt1	NM_019812.2	AA673258, expressed sequence AA673258, MGI:2143506, Sir2, Sir2alpha, 9130011J04Rik, MGD-MRK-33894, MGI:1918865, RIKEN cDNA 9130011J04	sirtuin 1
Skil	NM_011386.2	gene, Skir, ski/sno related, sno-dE3, SnoN, SnoN2, 2610043E24Rik, 2610206H23Rik, MGD-MRK-24460, MGI:1917574, MGI:1923841, p195Kp1, RIKEN cDNA 2610043E24	SKI-like
Skp1a	NM_011543.4	gene, RIKEN cDNA 2610206H23 gene, Tceb1, transcription elongation factor B (SII), polypeptide 1-like	S-phase kinase-associated protein 1A
Slamf6	NM_030710.2	KAL1, KAL1b, Ly108, lymphocyte antigen 108, NTB-A, SF2000	SLAM family member 6
Slamf7	NM_144539.5	19A, 19A24, 4930560D03Rik, CS1, novel Ly9, RIKEN cDNA 4930560D03 gene 4F2HC, AI314110, antigen identified by monoclonal antibodies 4F2, Cd98, CD98 antigen, expressed sequence AI314110, Ly10, Ly-10, Ly-m10, lymphocyte antigen 10, lymphocyte antigen m10, Mdu1, MGD-MRK-11948, MGD-MRK-12009, MGD-MRK-12016, MGD-MRK-12179, MGD-MRK-12223, MGD-MRK-35053, MGI:106597, MGI:2147500, Mgp-2hc	SLAM family member 7
Slc3a2	NM_008577.4		solute carrier family 3 (activators of dibasic and neutral amino acid transport), member 2
Slc7a5	NM_011404.3	DOH165474E, DNA segment, human 5474E, LAT1, TA1 7120426M23Rik, Madh2, MAD homolog 2, (Drosophila), Madr2, MGD-MRK-37087, MGI:2442937, RIKEN cDNA 7120426M23 gene, Smad 2	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5
Smad2	NM_010754.4	AU022421, expressed sequence AU022421, Madh3, MGI:2143216, Smad 3	SMAD family member 2
Smad3	NM_016769.3	AW743858, D18Wsu70e, DNA segment, Chr 18, Wayne State University 70, expressed, Dpc4, DPC4, expressed sequence AW743858, Madh4, MGD-MRK-33955, MGI:106263, MGI:2147379, Smad 4	SMAD family member 3
Smad4	NM_008540.2	1110051M15Rik, AI451355, expressed sequence AI451355, Madh5, MGI:1923577, MGI:2145246, MusMLP, RIKEN cDNA 1110051M15 gene, Smad 5	SMAD family member 4
Smad5	NM_008541.2	b2b508.1, Clo, b2b692Clo, brahma related gene 1, Brg1, MGD-MRK-1622, MGI:5313994, MGI:5316763, Mutant line 508, subline 1, Mutant line 692, SNF2beta, SWI1/SNF	SMAD family member 5
Smarca4	NM_011417.2	AI849087, expressed sequence AI849087, MGD-MRK-38302, MGI:2145301, Smn, SMN, survival motor neuron	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
Smn1	NM_011420.2	alpha-Syn, alphaSYN, alpha-synuclein	survival motor neuron 1
SncA	NM_009221.2	Cish1, Cish7, cytokine inducible SH2-containing protein 1, JAB1, JAK2-binding protein, JAK-binding protein, MGI:1276585, SOCS-1, SSI-1, STAT-induced STAT inhibitor 1	synuclein, alpha
Socs1	NM_009896.2	CIS3, Cish3, cytokine inducible SH2-containing protein 3, cytokine-inducible SH2 protein 3, E2a-Pbx1 target gene in fibroblasts 10, EF-10, SOCS-3, SSI-3, STAT-induced STAT inhibitor 3	suppressor of cytokine signaling 1
Socs3	NM_007707.2	1810018L08Rik, Cish5, cytokine inducible SH2-containing protein 5, MGI:1916302, RIKEN cDNA 1810018L08 gene, SOCS-5	suppressor of cytokine signaling 3
Socs5	NM_019654.2	B430204E11Rik, Cu(2+)-Zn2+ superoxide dismutase, CuZnSOD, Cu/Zn-SOD, indophenol oxidase, Ipo-1, Ipo-1, MGD-MRK-11443, MGD-MRK-11444, MGD-MRK-14483, MGD-MRK-14485, MGI:2441859, RIKEN cDNA B430204E11	suppressor of cytokine signaling 5
Sod1	NM_011434.1	A430075G10Rik, MGD-MRK-39560, MGI:2443000, RIKEN cDNA A430075G10 gene	superoxide dismutase 1, soluble
Sp100	NM_013673.3	D130027J01Rik, MGI:2444244, RIKEN cDNA D130027J01 gene	nuclear antigen Sp100
Sp3	NM_001018042.3	Dis-1, MGD-MRK-14369, MGD-MRK-14370, MGD-MRK-14764, MGD-MRK-15047, PU.1, SFV proviral integration 1, Sfp1, Sfp1-1, Sfp1-1, Tcpu1, Tpu.1, transcription factor PU.1	trans-acting transcription factor 3
Spi1	NM_011355.1		spleen focus forming virus (SFFV) proviral integration oncogene
SpiB	NM_019866.1	Spi-B	Spi-B transcription factor (Spi-1/PU.1 related)
Sppi2b	NM_175195.3	3110056003Rik, AW550292, expressed sequence AW550292, MGI:2143859, RIKEN cDNA 3110056003 gene	signal peptide peptidase like 2B
Sptan1	NM_001177667.1	2610027H02Rik, alpha-fodrin, alphall-spectrin, MGD-MRK-14536, MGD-MRK-14538, MGI:1923606, RIKEN cDNA 2610027H02 gene, spectrin alpha 2, Spna2, Spna-2	spectrin alpha, non-erythrocytic 1
Sqstm1	NM_011018.2	A170, MGD-MRK-36511, OSF-6, Osi, oxidative stress induced, p62, STAP AW259666, expressed sequence AW259666, MGD-MRK-14556, MGI:2139334, pp60c-src	sequestosome 1
Src	NM_001025395.2	2010005J02Rik, AA408197, expressed sequence AA408197, MGD-MRK-23925, MGI:1923977, MGI:2138078, RIKEN cDNA 2010005J02 gene	Rous sarcoma oncogene
Stat1	NM_009283.3	1600010G07Rik, AW496480, expressed sequence AW496480, MGD-MRK-23901, MGI:1919271, MGI:2143845, RIKEN cDNA 1600010G07 gene	signal transducer and activator of transcription 1
Stat2	NM_019963.1	1110034C02Rik, Aprf, AW109958, expressed sequence AW109958, MGD-MRK-23900, MGI:1915983, MGI:2144497, RIKEN cDNA 1110034C02 gene	signal transducer and activator of transcription 2
Stat3	NM_213659.2	MGD-MRK-23924	signal transducer and activator of transcription 3
Stat4	NM_011487.4	AA959963, expressed sequence AA959963, MGD-MRK-23874, MGI:2144052, STAT5	signal transducer and activator of transcription 4
Stat5a	NM_011488.2	MGD-MRK-23873	signal transducer and activator of transcription 5A
Stat5b	NM_011489.3	MGD-MRK-23872	signal transducer and activator of transcription 5B
Stat6	NM_009284.2	AA408040, expressed sequence AA408040, expressed sequence R75140, Lkb1, MGI:2143460, MGI:2143959, Par-4, R75140	signal transducer and activator of transcription 6
Stk11	NM_011492.3	2610018G03Rik, Mst4, RIKEN cDNA 2610018G03 gene	serine/threonine kinase 11
Stk26	NM_133729.1	AA792893, AIS2c2, amyotrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 2 (human), D1Ucla2, DNA segment, Chr 1, University of California at Los Angeles 2, expressed sequence AA792893, MGD-MRK-5717, MGI:91858, PRO1038	serine/threonine kinase 26
Stradb	NM_172656.5	MGD-MRK-16292, Syk	STE20-related kinase adaptor beta
Syk	NM_001198977.1	2310012M03Rik, b2b449Clo, Map3k7ip1, MGI:5314038, mitogen-activated protein kinase kinase kinase 7 interacting protein 1, Mutant line 449, RIKEN cDNA 2310012M03 gene, Tak1-binding protein 1	spleen tyrosine kinase
Tab1	NM_025609.2	1110030N06Rik, AS30078N03Rik, Map3k7ip2, MGI:2442803, mitogen-activated protein kinase kinase kinase 7 interacting protein 2, mKIAA0733, RIKEN cDNA 1110030N06 gene, RIKEN cDNA AS30078N03 gene, Tak1 binding protein 2	TGF-beta activated kinase 1/MAP3K7 binding protein 1
Tab2	NM_138667.2	4921526G09Rik, Map3k7ip3, mitogen-activated protein kinase kinase kinase 7 interacting protein 3, RIKEN cDNA 4921526G09 gene	TGF-beta activated kinase 1/MAP3K7 binding protein 2
Tab3	NM_025729.4	bHLHa17, hair patches, homolog of human stem-cell leukemia gene (prov.), Hpt, MGD-MRK-10924, MGD-MRK-14313, MGD-MRK-14708, MGI:96219, Scl, SCL, tal-1	TGF-beta activated kinase 1/MAP3K7 binding protein 3
Tal1	NM_011527.2	C86182, E430026L09Rik, expressed sequence C86182, I-TRAF, MGD-MRK-36251, MGI:2139525, MGI:2443907, RIKEN cDNA E430026L09 gene	T cell acute lymphocytic leukemia 1
Tank	NM_011529.2	D17Wsu91e, DNA segment, Chr 17, Wayne State University 91, expressed, MGD-MRK-33974, MGI:106282, tapasin, TPN	TRAF family member-associated NF-kappa B activator
Tapbp	NM_009318.2	2310079P03Rik, CDA11, RIKEN cDNA 2310079P03 gene	TAP binding protein
Tatdn1	NM_175151.4	120000311Rik, 1700069J21Rik, AA930106, D6Ert404e, D6Ert772e, DNA segment, Chr 6, ERATO Doi 404, expressed, DNA segment, Chr 6, ERATO Doi 772, expressed, EST	TatD DNase domain containing 1
Tax1bp1	NM_025816.3	AA930106, MGI:1196306, MGI:1889378, MGI:1914122, MGI:1920756, RIKEN cDNA 120000311 gene, RIKEN cDNA 1700069J21 gene, T6BP, TXBP151	Tax1 (human T cell leukemia virus type I) binding protein 1
Tbk1	NM_019786.4	1200008805Rik, AI462036, AW048562, expressed sequence AI462036, expressed sequence AW048562, MGI:1914699, MGI:2143617, MGI:2143800, RIKEN cDNA 1200008805 gene	Tank-binding kinase 1
Tbx21	NM_019507.2	Tbet, T-bet, Tblym, TBST1	T-box 21
Tcf4	NM_013685.1	5730422P05Rik, ASP-I2, bHLHb19, E2-2, E2, 2, ITF-2, JTF-2b, ME2, MGD-MRK-10807, MGD-MRK-14752, MGD-MRK-14758, MGI:1915012, MITF-2A, MITF-2B, RIKEN cDNA 5730422P05 gene, SEF-2, SEF2-1, Tcf-4, TFE	transcription factor 4
Tcf7l2	NM_001142924.1	mTcf-4b, mTcf-4E, Tcf4, Tcf-4, TCF4B, TCF4E	transcription factor 7 like 2, T cell specific, HMG box
Tcirg1	NM_001136091.1	ATP6a3, ATP6, ATPase, H+ transporting, lysosomal I, MGD-MRK-12970, MGI:97398, oc, OC-116, osteosclerotic, TRC7, V-ATPase a3	T cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein A3
Tcl1	NM_009337.3		T cell lymphoma breakpoint 1

Tek	NM_013690.2	AA517024,adhesion structures linked tyrosine kinase,Cd202b,expressed sequence AA517024,Hyk,MGD-MRK-14991,MGD-MRK-16702,MGD-MRK-18601,MGI:2140157,tie-2,Tie2,tyrosine kinase receptor 2	TEK receptor tyrosine kinase
Telo2	NM_001163661.1	AI415602,MGI:2146847,RIKEN cDNA 1200003M09 gene	telomere maintenance 2
Tg	NM_009375.2	cog,congenital goiter,MGD-MRK-15075,MGD-MRK-2049,MGI:88444,Tgn	thyroglobulin
Tgfb1	NM_011577.1	MGD-MRK-15063,MGD-MRK-15064,MGD-MRK-15067,Tgfb,Tgfb-1,TGFbeta1,TGF-beta1,TGF-beta 1	transforming growth factor, beta 1
Tgfb3	NM_009368.2	MGD-MRK-15066,MGD-MRK-15069,Tgfb-3	transforming growth factor, beta 3
Tgfb1	NM_009370.2	Alk-5,ALK5,AU017191,expressed sequence AU017191,MGD-MRK-15070,MGI:2140434,TbetaRI,TbetaR-I	transforming growth factor, beta receptor I
Tgfb2	NM_009371.2	1110020H15RIK,AU042018,expressed sequence AU042018,MGD-MRK-15071,MGI:1923554,MGI:2143233,RIKEN cDNA 1110020H15 gene,TbetaRII,TbetaR-II,TBR-II	transforming growth factor, beta receptor II
Thbd	NM_009378.3	AI385582,CD141,expressed sequence AI385582,MGD-MRK-15081,MGI:2138918,TM	thrombomodulin
Thbs1	NM_011580.4	MGD-MRK-15083,MGD-MRK-15086,tbsp1,Thbs-1,TSP1,TSP-1,AW046014,AW547018,expressed sequence AW046014,expressed sequence AW547018,MGI:2147076,TICAM-1,Trif	thrombospondin 1
Ticam1	NM_174989.4	ENSMUSG00000071552,predicted gene, ENSMUSG00000071552,V-set and transmembrane domain containing 3,Vstm3	toil-like receptor adaptor molecule 1
Tigit	NM_001146325.1	AA407980,C130027E04RIK,expressed sequence AA407980,Mal,MGI:2142915,MyD88-adaptor-like,RIKEN cDNA C130027E04 gene,wyatt	T cell immunoreceptor with Ig and ITIM domains
Tirap	NM_001177846.1	Ly105	toil-interleukin 1 receptor (TIR) domain-containing adaptor protein
Tlr2	NM_011905.2	lipopolysaccharide response,Lps,MGD-MRK-11879,MGD-MRK-26042,RasI2-8,RAS-like, family 2, locus 8	toil-like receptor 2
Tlr4	NM_021297.2		toil-like receptor 4
Tlr5	NM_016928.2		toil-like receptor 5
Tlr7	NM_133211.3		toil-like receptor 7
Tlr9	NM_031178.2		toil-like receptor 9
Tmem173	NM_028261.1	2610307O08RIK,ERIS,MPYS,RIKEN cDNA 2610307O08 gene,Sting	transmembrane protein 173
Tmem176a	NM_001098271.1	0610011I04RIK,AU040201,AU041743,expressed sequence AU040201,expressed sequence AU041743,MGI:2141581,MGI:2141587,RIKEN cDNA 0610011I04 gene	transmembrane protein 176A
Tnf	NM_013693.2	DIF,MGD-MRK-15151,MGD-MRK-28090,Tnfa,TNFalpha,TNF-alpha,TNF-alpha,Tnfsf1a,tumor necrosis factor-alpha,tumor necrosis factor, alpha	tumor necrosis factor
Tnfaip3	NM_009397.2	A20,Tnfrfp3,tumor necrosis factor induced protein 3,zinc finger protein A20	tumor necrosis factor, alpha-induced protein 3
Tnfaip6	NM_009398.2	Tnfrfp6,Tsg6,TSG-6,tumor necrosis factor induced protein 6	tumor necrosis factor alpha induced protein 6
Tnfrsf10b	NM_020275.3	DR5,KILLER,DR5,Ly98,TRAILR2,TRAIL-R2,Trail Receptor,TRICK2A,TRICK2B,TRICKB	tumor necrosis factor receptor superfamily, member 10b
Tnfrsf11a	NM_009399.3	MGI:1194917,Rank,Receptor activator of NF-kappaB,TRANCE-R	tumor necrosis factor receptor superfamily, member 11a, NFkB activator
Tnfrsf13b	NM_021349.1	1200009E08RIK,MGI:1918966,RIKEN cDNA 1200009E08 gene,Taci	tumor necrosis factor receptor superfamily, member 13b
Tnfrsf13c	NM_028075.2	2010006P15RIK,Baffr,BAFF-R,B-cell maturation defect 1,Bcmd1,Bcmd-1,Lvis22,MGD-MRK-23965,MGI:103101,RIKEN cDNA 2010006P15 gene	tumor necrosis factor receptor superfamily, member 13c
Tnfrsf14	NM_178931.2	Atar,HveA,Hvem	tumor necrosis factor receptor superfamily, member 14 (herpesvirus entry mediator)
Tnfrsf17	NM_011608.1	BCM,BCMA,Tnfrsf13,Tnfrsf13a	tumor necrosis factor receptor superfamily, member 17
Tnfrsf1a	NM_011609.2	CD120a,MGD-MRK-15155,MGD-MRK-15156,MGI:98781,p55,p55-R,TNF-alphaR1,TNF-alpha-R1,TNFalpha-R1,TNFAR,Tnfr1,TNFR-1,TNFR-2,TNFR-5,TNFR60,TNF receptor alpha chain,TNFR,TNFR-R,I,TNFRp55,tumor necrosis factor receptor 1,tumor necrosis factor receptor 2	tumor necrosis factor receptor superfamily, member 1a
Tnfrsf1b	NM_011610.3	CD120b,MGD-MRK-15154,MGD-MRK-15157,MGI:98782,p75,p75 TNFR,TNF-alphaR2,TNFalpha-R2,TNFR,Tnfr-1,Tnfr2,TNFR-2,TNFR-75,TNFR80,TNFRRII,TNFR-II,tumor necrosis factor receptor 1,tumor necrosis factor receptor 2	tumor necrosis factor receptor superfamily, member 1b
Tnfrsf4	NM_011659.2	ACT35,CD134,MGD-MRK-13094,MGD-MRK-25943,Ox40,Ox-40 T-cell antigen,tax-transcriptionally activated glycoprotein 1,Txgp1	tumor necrosis factor receptor superfamily, member 4
Tnfrsf8	NM_009401.2	Cd30,CD30,CD30 antigen,MGD-MRK-16705	tumor necrosis factor receptor superfamily, member 8
Tnfrsf9	NM_001077508.1	4-1BB,A930040111RIK,AA408498,AI325004,CD137,CD antigen 137,Cdw137,expressed sequence AA408498,expressed sequence AI325004,ILA,Ly63,lymphocyte antigen 63,MGI:1925690,MGI:2140130,MGI:2140239,RIKEN cDNA A930040111 gene A330042121RIK,AI448571,APO-2L,expressed sequence AI448571,MGD-MRK-35883,MGI:2139709,RIKEN cDNA A330042121 gene,TNF-related apoptosis inducing ligand,Trail	tumor necrosis factor receptor superfamily, member 9
Tnfsf10	NM_009425.2	Ly109,ODF,DPGL,osteoclast differentiation factor,RANKL,TNF-related activation-induced cytokine,Trance	tumor necrosis factor (ligand) superfamily, member 10
Tnfsf11	NM_011613.3	2310026N09RIK,APRIL,RIKEN cDNA 2310026N09 gene,TALL2,TRDL1	tumor necrosis factor (ligand) superfamily, member 11
Tnfsf13	NM_023517.2	BAFF,Bly5,D8Erd387e,DNA segment, Chr 8, ERATO DoI 387,	tumor necrosis factor (ligand) superfamily, member 13
Tnfsf13b	NM_033622.1	expressed,MGI:1196237,TALL-1,TNFA	tumor necrosis factor (ligand) superfamily, member 13b
Tnfsf4	NM_009452.2	Atb1,Atb-1,atherosclerosis 1,CD134,gp34,MGD-MRK-1447,MGD-MRK-1450,MGD-MRK-18700,MGD-MRK-25942,MGI:88098,Ox40,OX40L,Ox40 ligand,tax-transcriptionally activated glycoprotein 1 ligand,TXGP1,Txgp1l 1110018I21RIK,1200014E20RIK,AI648117,E030018G17RIK,E030037J05RIK,expressed sequence AI648117,MGD-MRK-25984,MGI:1915754,MGI:1918975,MGI:2138313,MGI:2444104,RIKEN cDNA 1110018I21 gene,RIKEN cDNA 1200014E20 gene,RIKEN cDNA E030018G17 gene,RIKEN cDNA E030037J05 gene,tensin,Tns	tumor necrosis factor (ligand) superfamily, member 4
Tns1	NM_027884.3	4930403G24RIK,4931428G15RIK,MGI:1921868,MGI:1922969,RIKEN cDNA	tensin 1
Tollip	NM_023764.3	4930403G24 gene,RIKEN cDNA 4931428G15 gene	toll interacting protein
Tpo	NM_009417.2	MGD-MRK-15209	thyroid peroxidase
Tpsab1	NM_031187.4	mast cell protease 7,Mcp-7,Mcpt7,MGD-MRK-12149,MGD-MRK-12157,MMCP-7	tryptase alpha/beta 1
Tpsb2	NM_010781.3	AV011504,expressed sequence AV011504,mast cell protease 6,Mcp6,Mcp-6,Mcpt6,MGD-MRK-12148,MGD-MRK-12156,MGI:2147011,MMCP-6	tryptase beta 2
Tradd	NM_01033161.2	9130005N23RIK,AA930854,expressed sequence AA930854,MGD-MRK-38244,MGI:1918859,MGI:2142447,RIKEN cDNA 9130005N23 gene	TNFRSF1A-associated via death domain
Traf1	NM_009421.3	4732496E14RIK,MGD-MRK-18657,MGI:2443877,RIKEN cDNA 4732496E14 gene	TNF receptor-associated factor 1
Traf2	NM_009422.2	A1325259,expressed sequence A1325259,MGD-MRK-18656,MGI:2138907	TNF receptor-associated factor 2
Traf3	NM_001048206.1	A1528849,CAP-1,CD40b,CRAF1,expressed sequence A1528849,LAP1,MGD-MRK-36169,MGD-MRK-37077,MGI:2144858	TNF receptor-associated factor 3
Traf5	NM_011633.1	MGD-MRK-36119	TNF receptor-associated factor 5
Traf6	NM_009424.2	2310003F17RIK,AI851288,C630032O20RIK,expressed sequence AI851288,MGD-MRK-37109,MGI:1919554,MGI:2139081,RIKEN cDNA 2310003F17 gene,RIKEN cDNA C630032O20 gene	TNF receptor-associated factor 6
Trat1	NM_198297.3	C030046M14RIK,RIKEN cDNA C030046M14 gene,T-cell receptor interacting molecule,Tcrim,Trim	T cell receptor associated transmembrane adaptor 1
Trem1	NM_021406.5	MGI:1932924,MGI:1932925,Trem2a,Trem2b,Trem2c,triggering receptor expressed on myeloid cells 2a,triggering receptor expressed on myeloid cells 2b,triggering receptor expressed on myeloid cells 2c	triggering receptor expressed on myeloid cells 1
Trem2	NM_031254.3		triggering receptor expressed on myeloid cells 2
Trex1	NM_011637.6	AU041952,expressed sequence AU041952,MGI:2143232	three prime repair exonuclease 1
Trim14	NM_029077.3	5830400N10RIK,RIKEN cDNA 5830400N10 gene	tripartite motif-containing 14
Trim21	NM_009277.4	MGD-MRK-35115,Ro52,Sjogren syndrome antigen A1,Ssa1	tripartite motif-containing 21
Trim25	NM_009546.2	AA960166,AI022677,estrogen-responsive finger protein,expressed sequence AA960166,expressed sequence AI022677,MGD-MRK-19654,MGI:2144055,MGI:2144339,Zfp147,zinc finger protein 147	tripartite motif-containing 25
Trim26	NM_001025599.2	AI462198,expressed sequence AI462198,MGI:2146873,Zfp173,zinc finger protein 173	tripartite motif-containing 26

Trim35	NM_029979.3	0710005M05Rik,A430106H13Rik,AW046487,expressed sequence AW046487,Hs5,Mair,MGI:1925036,MGI:2145786,mKIAA1098,RIKEN cDNA 0710005M05 gene,RIKEN cDNA A430106H13 gene	tripartite motif-containing 35
Trim68	NM_198012.2	A1894158,expressed sequence A1894158,F73011412Rik,RIKEN cDNA F73011412 gene,ring finger protein 137,Rnf137,SS-56	tripartite motif-containing 68
Trim8	NM_053100.2	AA08830,BB006755,expressed sequence AA08830,expressed sequence BB006755,GERP,MGI:2147440,MGI:2147763,ring finger protein 27,Rnf27 1810007117Rik,60 kDa Ro antigen,AS30054J02Rik,A1646302,expressed sequence A1646302,MGD-MRK-14606,MGD-MRK- 35110,MGI:1916306,MGI:2138306,MGI:2443501,RIKEN cDNA 181000717 gene,RIKEN cDNA AS30054J02 gene,Sjogren syndrome antigen	tripartite motif-containing 8
Trove2	NM_013835.2	A2,Ssa,Ssa2,S5-A/Ro	TROVE domain family, member 2
Trp53	NM_011640.1	MGD-MRK-15247,MGI:3584375,MGI:3584378,MGI:3584379,p44,p53	transformation related protein 53
Trp53inp2	NM_178111.3	1110029F20Rik,RIKEN cDNA 1110029F20 gene,Tp53inp2	transformation related protein 53 inducible nuclear protein 2
Tsc2	NM_001039363.1	MGD-MRK-19397,Nafid,tuberin	tuberous sclerosis 2
Txn1	NM_011660.3	AW50880,expressed sequence AW50880,MGD-MRK- 15309,MGI:2140594,Trx1	thioredoxin 1
Txnip	NM_023719.1	1200008J08Rik,AA682105,expressed sequence AA682105,hyperlipidemia 1,HypIpl1,MGI:1203368,MGI:1921079,MGI:2139605,mVDUP1,RIKEN cDNA 1200008J08 gene,THIF,VDUP1	thioredoxin interacting protein
Tyk2	NM_001205312.1	JTK1	tyrosine kinase 2
Tyrobp	NM_011662.2	DAP12,KARAP,killer cell activating receptor associated protein	TYRO protein tyrosine kinase binding protein
Uba52	NM_019883.3	D8ErtD21e,DNA segment, Chr 8, ERATO Doi 21, expressed,MGD-MRK- 15325,MGI:1098796	ubiquitin A-52 residue ribosomal protein fusion product 1
Ube2I3	NM_009456.2	C79827,expressed sequence C79827,MGD-MRK- 38285,MGI:2146706,UbcE7,UbcM4,ubiquitin-conjugating enzyme 7 2810489I21Rik,RIG-B,RIKEN cDNA 2810489I21	ubiquitin-conjugating enzyme E2L 3
Ube2I6	NM_019949.2	gene,UbcE8,UbcC8,ubiquitin-conjugating enzyme 8 0910001J09Rik,6720465F12Rik,AA409170,E2-EPF,expressed sequence AA409170,MGI:1913345,MGI:2141820,RIKEN cDNA 0910001J09 gene,RIKEN cDNA 6720465F12 gene	ubiquitin-conjugating enzyme E2L 6
Ube2s	NM_133777.2		ubiquitin-conjugating enzyme E2S
Unc93b1	NM_019449.2		unc-93 homolog B1 (C. elegans)
Usp21	NM_013919.4	ESTM28,EST W53272,expressed sequence tag mouse EST 28,MGI:1334424,ubiquitin specific protease 23,Usp16,Usp23,W53272	ubiquitin specific peptidase 21
Vamp2	NM_009497.3	MGD-MRK-14676,MGD-MRK-14678,MGI:98459,Syb2,Syb- 2,sybln,synaptobrevin 2,synaptobrevin-2,synaptobrevin II	vesicle-associated membrane protein 2
Vav1	NM_011691.4	MGD-MRK-15381	vav 1 oncogene
Vcam1	NM_011693.2	CD106,MGD-MRK-15384,MGD-MRK-15385,Vcam-1	vascular cell adhesion molecule 1
Vcl	NM_009502.4	AA571387,A1462105,AW545629,expressed sequence AA571387,expressed sequence A1462105,expressed sequence AW545629,metavinculin,MGD-MRK- 15386,MGI:2145572,MGI:2145658,MGI:2145826	vinculin
Vwf	NM_011708.3	6820430P06Rik,A1551257,B130011006Rik,expressed sequence A1551257,MGD-MRK-15419,MGI:2141444,MGI:2443130,RIKEN cDNA 6820430P06 gene,RIKEN cDNA B130011006 gene	Von Willebrand factor
Wnt10b	NM_011718.1	MGD-MRK-18790,MGD-MRK-37098,wingless-related MMTV integration site 12,Wnt12	wingless-type MMTV integration site family, member 10B
Xbp1	NM_013842.2	D11ErtD39e,DNA segment, Chr 11, ERATO Doi 39, expressed,MGD-MRK- 15468,MGI:1098709,TREB5,TREB-5,XBP-1	X-box binding protein 1
Xcl1	NM_008510.1	A1661682,ATAC,expressed sequence A1661682,Lptn,LTN,lymphotactin,MGD- MRK-26027,MGI:2138317,SCM-1,SCM-1a,Scyc1,small inducible cytokine subfamily C, member 1 (lymphotactin)	chemokine (C motif) ligand 1
Xcr1	NM_011798.4	Ccxcr1,chemokine (C motif) XC receptor 1,C motif-1/lymphotactin receptor,GPR5	chemokine (C motif) receptor 1
Xiap	NM_009688.2	1110015CD2Rik,Aipa,Apl3,apoptosis inhibitor 3,apoptosis inhibitory protein A,baculoviral IAP repeat-containing 4,Birc4,JAP3,ILP-1,MGD-MRK- 36144,MGI:1922024,RIKEN cDNA 1110015C02 gene	X-linked inhibitor of apoptosis
Xrcc6	NM_010247.2	G22p1,Ku70,Ku p70,MGD-MRK-9914,thyroid autoantigen	X-ray repair complementing defective repair in Chinese hamster cells 6
Yy1	NM_009537.3	AW488674,delta transcription factor,expressed sequence AW488674,MGD- MRK-15848,MGI:2145026,NF-E1,UCRBP transcription factor,Yin Yang 1 A1327364,expressed sequence A1327364,MGD-MRK- 16398,MGI:2138217,MGI:3584397,MGI:3584398,mrtle,mr t- less,mur,murdoch,Srk,syk related kinase,TZK,ZAP-70	YY1 transcription factor
Zap70	NM_009539.2		zeta-chain (TCR) associated protein kinase
Zbp1	NM_021394.2	2010010H03Rik,Dai,MGI:1917117,mZaDLM,RIKEN cDNA 2010010H03 gene 5730415P04Rik,6430583A19Rik,MGI:1917796,RIKEN cDNA 5730415P04 gene,RIKEN cDNA 6430583A19 gene	Z-DNA binding protein 1
Zdhc2	NM_178395.3		zinc finger, DHHC domain containing 2
Zfp385a	NM_013866.2	Hzf,Zfp385,zinc finger protein 385	zinc finger protein 385A
Internal Reference Genes			
Abcf1	NM_013854.1	Abc5,AU041969,D17Wsu166e,DNA segment, Chr 17, Wayne State University 166, expressed,expressed sequence AU041969,GCN20,MGD-MRK- 36426,MGI:107849,MGI:2147001	ATP-binding cassette, sub-family F (GCN20), member 1
Babam1	NM_026636.2	5430437P03Rik,RIKEN cDNA 5430437P03 gene 2610002H19Rik,AA408921,Cycl1,expressed sequence AA408921,MGI:2145898,RIKEN cDNA 2610002H19 gene	BRIS1 and BRCA1 A complex member 1
Cycl1	NM_025567.2		cytochrome c-1
G6pdx	NM_008062.2	G28A,G6pd,glucose-6-phosphate dehydrogenase 1 X-linked,GpdX,MGD-MRK- 10225,MGD-MRK-33659,MGD-MRK-9915	glucose-6-phosphate dehydrogenase X-linked
Gusb	NM_010368.1	9912,MGI:2140959,MGI:95873,MGI:95874,MGI:95875,MGI:95876 C81579,expressed sequence C81579,Hprt1,hypoxanthine guanine phosphoribosyl transferase 1,MGD-MRK-10922,MGI:2148073	glucuronidase, beta
Hprt	NM_013556.2		hypoxanthine guanine phosphoribosyl transferase
Mrp57	NM_025305.2	MRP-57,ribosomal protein, mitochondrial, S7,Rpms7	mitochondrial ribosomal protein 57
Nmt1	NM_008707.3	AW536594,expressed sequence AW536594,MGD-MRK-19465,MGI:2144553 6720454P05Rik,BC002230,cDNA sequence BC002230,MGI:2443747,RIKEN cDNA 6720454P05 gene	N-methyltransferase 1
Nrde2	NM_183155.2		nrde-2 necessary for RNA interference, domain containing
Oaz1	NM_008753.4	Antizyme,antizyme 1,AZ1,AZ-1,MGD-MRK-38478	ornithine decarboxylase antizyme 1
Pgk1	NM_008828.2	MGD-MRK-13258,MGD-MRK-13266,Pgk-1	phosphoglycerate kinase 1
Polr2a	NM_009089.2	220kDa,MGD-MRK-14111,RNA polymerase II 1,Rpo2-1 Cphn,cyclophilin,cyclophilin A,Cyp-18,CypA,MGD-MRK-13591,MGD-MRK- 2108	polymerase (RNA) II (DNA directed) polypeptide A
Ppia	NM_008907.1		peptidylprolyl isomerase A
Rpl4	NM_024212.4	2010004I23Rik,RIKEN cDNA 2010004I23 gene 2310034D06Rik,C81073,expressed sequence C81073,FP,MGI:2145519,RIKEN cDNA 2310034D06 gene,SDH2,SDHF	ribosomal protein L4
Sdha	NM_023281.1	1200014D22Rik,BB131189,expressed sequence BB131189,IJP1,LKB1IP,MGI:2138637,RIKEN cDNA 1200014D22 gene 1110003P22Rik,C87963,expressed sequence C87963,MGI:2142375,RIKEN cDNA 1110003P22 gene	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
Stk11p	NM_027886.3		serine/threonine kinase 11 interacting protein
Tbcl1d10b	NM_144522.5		TBCL1 domain family, member 10b
Tbp	NM_013684.3	general transcription factor IID,Gtf2d,MGD-MRK-18659,MGD-MRK-24009 AA408537,A1596182,B130022C14Rik,expressed sequence AA408537,expressed sequence A1596182,MGD-MRK- 36389,MGI:2146752,MGI:2146893,MGI:2442353,RIKEN cDNA B130022C14 gene	TATA box binding protein
Tubb5	NM_011655.4	AL033289,expressed sequence AL033289,MGD-MRK-15326,MGD-MRK- 33606,MGI:2141542,Ubb2,ubiquitin 2	tubulin, beta 5 class I
Ubb	NM_011664.4		ubiquitin B