

nCounter® Mouse PanCancer IO 360™ Panel - Gene Details

Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or Isoform Information
4930578C19Rik	NM_175228.4		RIKEN cDNA 4930578C19 gene	
A2m	NM_175628.3	A2mp	alpha-2-macroglobulin	
Acvr1c	NM_001033369.3	Alk-7, ALK7	activin A receptor, type IC	
Adam12	NM_007400.2	meltrin, alpha, MGD-MRK-33047, Mitna DD7A5-7, EGF-like module containing, mucin-like, hormone receptor-like sequence 1, EGF-TM7, Emr1, F4/80, glycoprotein f4/80 protein, Gp480, Ly71, lymphocyte antigen 71, MGD-MRK-32093, MGD-MRK- 35122, MGD-MRK-35373, MGI:105054, MGI:106663, TM7LN3	a disintegrin and metallopeptidase domain 12 (meltrin alpha)	
Adgre1	NM_010130.1	AM, MGD-MRK-37094	adhesion G protein-coupled receptor E1	
Adm	NM_009627.1	A2AAR, A2aR, A2a, Rs, AA2AR, MGD-MRK-16163	adenomedullin	
Adora2a	NM_009630.2	Akt, MGD-MRK-1257, PKB, PKB/Akt, PKBAlpha	adenosine A2a receptor	
Akt1	NM_009652.3	Aldo1, Aldo-1, aldolase 1 [Aldo-A isoform, skeletal muscle, brain], MGD-MRK- 1276, MGD-MRK-1278	thymoma viral proto-oncogene 1	
Aldoa	NM_001177307.1	Ai847350, Aldo3, Aldolase C, AU040929, expressed sequence Ai847350, expressed sequence AU040929, MGD-MRK- 18688, MGI:1328309, MGI:2144291, MGI:2144424, scrapie responsive gene 2, Scrg2, zebirin II	aldolase A, fructose-bisphosphate	
Aldoc	NM_009657.3	1110046021Rik, ang1, Ang-1, Angiopoietin-1, MGD-MRK- 37492, MGI:1916073, RIKEN cDNA 1110046021 gene	aldolase C, fructose-bisphosphate	
Angpt1	NM_009640.3	Ang2, Ang-2	angiopoietin 1	
Angpt2	NM_007426.3	BK89, FlAIF, HFARP, NG27	angiopoietin 2	
Angpt4	NM_020581.2	1110037A17Rik, 290003712Rik, C78101, expressed sequence C78101, MGI:1915993, MGI:2143393, RIKEN cDNA 1110037A17 gene, RIKEN cDNA 2900037121 gene, Scrsps	angiopoietin-like 4	
Anln	NM_028390.3	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	anillin, actin binding protein	
Apc	NM_007462.3	2310057K14Rik, MGI:1916945, RIKEN cDNA 2310057K14 gene	adenomatous polyposis coli	
Aph1b	NM_177583.4	AAC-11, Ai196452, expressed sequence Ai196452, MGI:2138859	aph1 homolog B, gamma secretase subunit	
Api5	NM_007466.2	Agtr1, angiotensin receptor-like 1, APJ, msr/apj	apoptosis inhibitor 5	
Ap1nr	NM_011784.3	Ai255918, expressed sequence Ai255918, MGD-MRK-1376, MGI:2141887	apelin receptor	
Apoe	NM_001305844.1	2310076014Rik, RIKEN cDNA 2310076014 gene	apolipoprotein E	
Apo16	NM_001163621.1	1700020I22Rik, Ai266899, expressed sequence Ai266899, MGI:1919512, MGI:2143005, RIKEN cDNA 1700020I22 gene	apolipoprotein L 6	
Aqp9	NM_001271843.1	AR, Mclub, MGD-MRK-1388, MGD-MRK-16238, MGI:1890801, modifier of curly bare, schwannoma derived growth factor, SdGF	aquaporin 9	
Areg	NM_009704.3	Ai, Ai256583, Arg-1, expressed sequence Ai256583, MGD-MRK-1392, MGD-MRK- 1393, MGI:2143548, PGIF	amphiregulin	
Arg1	NM_007482.3	Aii, AU022422, expressed sequence AU022422, MGI:2144959	arginase, liver	
Arg2	NM_009705.3	1110030E03Rik, BAF250a, MGI:1915989, Osa1, RIKEN cDNA 1110030E03 gene, Smarcf1, SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily f, member 1	arginase type II	
Arid1a	NM_001080819.1	bHLHe1, MGD-MRK-35649, mKIAA0307	AT rich interactive domain 1A (SWI-like)	
Arnt2	NM_007488.2	LRG-21, MGD-MRK-38429	aryl hydrocarbon receptor nuclear translocator 2	
Atf3	NM_007498.3	Ai256621, C030025E19Rik, expressed sequence Ai256621, MGD-MRK- 35663, MGI:1924666, MGI:2143000, RIKEN cDNA C030025E19 gene	activating transcription factor 3	
Atm	NM_007499.1	Ai316800, expressed sequence Ai316800, Fu, fused, Kb, Ki, kinky, knobby, MGD-MRK- 11553, MGD-MRK-11586, MGD-MRK-9891, MGI:2146821, MGI:95592	ataxia telangiectasia mutated	
Axin1	NM_001159598.1	Ai323647, Ark, expressed sequence Ai323647, MGD-MRK- 15343, MGI:2141908, MGI:98896, Tyro7, Ufo, ufo oncogene homolog beta2-m, beta 2 microglobulin, Ly-m11, lymphocyte antigen m11, MGD-MRK- 12010, MGD-MRK-1492	axin 1	
Axl	NM_009465.3	Ai256621, C030025E19Rik, expressed sequence Ai256621, MGD-MRK- 35663, MGI:1924666, MGI:2143000, RIKEN cDNA C030025E19 gene	AXL receptor tyrosine kinase	
B2m	NM_009735.3	Ai325008, Bbc2, expressed sequence Ai325008, MGI:2147509	beta-2 microglobulin	
Bad	NM_007522.3	2610003H06Rik, RIKEN cDNA 2610003H06 gene	BCL2-associated agonist of cell death	
Bambi	NM_026505.2	913021103Rik, RIKEN cDNA 913021103 gene	BMP and activin membrane-bound inhibitor	
Batf3	NM_030060.2	MGD-MRK-16487	basic leucine zipper transcription factor, ATF-like 3	
Bax	NM_007527.3	PUMA	BCL2-associated X protein	
Bbc3	NM_133234.2	Ai451249, D19ErtD609e, DNA segment, Chr 19, ERATO Doi 609, expressed, expressed sequence Ai451249, MGI:2147549	BCL2 binding component 3	
Bbs1	NM_001033128.3	Bcat-1, BCATc, c-myc regulatory gene, Eca39, MGD-MRK-28158	Bardet-Biedl syndrome 1 (human)	
Bcat1	NM_001024468.3	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	branched chain aminotransferase 1, cytosolic	
Bcl2	NM_009741.3	bcl-x, BclX, Bcl-XL, Bcl(XL), Bcl-Xs, MGD-MRK-1527	B cell leukemia/lymphoma 2	
Bcl2l1	NM_009743.5	Bazf, Bcl6-associated zinc finger protein	BCL2-like 1	
Bcl6b	NM_007528.2	2700049M22Rik, Ai875481, AU022477, expressed sequence Ai875481, expressed sequence AU022477, MGD-MRK- 37130, MGI:1919829, MGI:2141512, MGI:2141571, RIKEN cDNA 2700049M22 gene	B cell CLL/lymphoma 6, member B	
Bid	NM_007544.3	Api2, apoptosis inhibitor 1, AW107670, ciAP2, ciAP-2, expressed sequence AW107670, HIAP2, IAP2, MGI:2143290, MIAP2, MIHC, RNF49	BH3 interacting domain death agonist	
Birc3	NM_007464.3	Api4, apoptosis inhibitor 4, MGI:1196343, survivin, TIAP	baculoviral IAP repeat-containing 3	
Birc5	NM_001012273.1	MGD-MRK-1577	baculoviral IAP repeat-containing 5	
Blk	NM_007549.2	Ai467020, Bmp2a, bone morphogenetic protein 2a, expressed sequence Ai467020, MGD-MRK-1593, MGD-MRK-1595, MGI:2138975	B lymphoid kinase	
Blm	NM_001042527.2	C86132, D14ErtD719e, DNA segment, Chr 14, ERATO Doi 719, expressed, expressed sequence C86132, MGI:1289182, MGI:2145873, Nip3L, Nix	Bloom syndrome, RecQ like helicase	
Bmp2	NM_007553.2	MGD-MRK-25968	bone morphogenetic protein 2	
Bnip3	NM_009760.4	Ai256696, AW045498, expressed sequence Ai256696, expressed sequence AW045498, Fancd1, MGD-MRK-38382, MGI:2140824, MGI:2141125, RAB163	BCL2/adenovirus E1B interacting protein 3	
Bnip3l	NM_009761.3	2410084F24Rik, AW060456, expressed sequence	BCL2/adenovirus E1B interacting protein 3-like	
Brcap1	NM_009764.3	AW060456, Frsg2, MGI:2139285, ORFX, RIKEN cDNA 2410084F24 gene, RINGL3	breast cancer 1, early onset	
Brcap2	NM_009765.3	DNA segment, WI-11513, HUNK1, MCAP, MGI:1337084, WI-11513 3110009N10Rik, 8030460I03Rik, BACH1, MGI:1920358, RIKEN cDNA 3110009N10 gene, RIKEN cDNA 8030460I03 gene	breast cancer 2, early onset	
Brd3	NM_001113573.1	Ai25395, C1q, expressed sequence Ai25395, MGD-MRK-1696, MGI:2140213	BRCAP1 interacting protein C-terminal helicase 1	
Brd4	NM_001286630.1	MGD-MRK-1697	B and T lymphocyte associated	
Brip1	NM_178309.2	classical-complement pathway C3/C5 convertase, MGD-MRK-1699	complement component 1, q subcomponent, alpha polypeptide	
Btla	NM_001037719.2	CsAr, Cs1, Cd88, complement component 5, receptor 1, D7Msu1, DNA segment, Chr 7, Michigan State University 1, MGD-MRK-1710, MGI:2180152	complement component 1, q subcomponent, beta polypeptide	
C1qa	NM_007572.2	gene model 1238, (NCBI), Gm1238, LOC383055, MGD-MRK-1713, MGI:2686084	complement component 2 (within H-2S)	
C1qb	NM_009777.2	Caspase-1, ICE, I1bc, interleukin 1 beta convertase, interleukin 1 beta-converting enzyme, MGD-MRK-11368	complement component 5a receptor 1	
C2	NM_013484.2	A830040C14Rik, AC-3, Apopain, Caspase-3, CC3, CPP32, melody, MGD-MRK- 36315, MGI:2442726, MGI:3717434, mldy, RIKEN cDNA A830040C14 gene, Yama	complement component 7a	
C5ar1	NM_007577.3	Caspase-8, FLICE, MACH, Mch5	complement component 7a receptor 1	
C7	NM_356827.7	Ai115399, AW493809, Caspase-9, expressed sequence Ai115399, expressed sequence AW493809, ICE-LAP6, Mch6, MGI:2140188, MGI:2140578	complement component 7b	
Casp1	NM_009807.2	2310076I21Rik, 2310079L19Rik, Cbl3, MGI:1913812, MGI:1919198, RIKEN cDNA 2310076I21 gene, RIKEN cDNA 2310079L19 gene	caspase 1	
Casp3	NM_009810.3		caspase 3	
Casp8	NM_009812.2		caspase 8	
Casp9	NM_015733.4		caspase 9	
Cblc	NM_023224.5		Casitas B-lineage lymphoma c	

Ccl1	NM_011329.2	BF534335,CCR8 ligand,expressed sequence BF534335,I-309,MGD-MRK-14332,MGD-MRK-14736,MGI:2671062,Scya1,small inducible cytokine A1,Tca-3,T-cell activation family 3	chemokine (C-C motif) ligand 1	
Ccl11	NM_011330.3	eotaxin,MGD-MRK-24461,Scya11,small inducible cytokine A11	chemokine (C-C motif) ligand 11	
Ccl12	NM_011331.2	MCP-5,MGD-MRK-37263,Scya12,small inducible cytokine A12	chemokine (C-C motif) ligand 12	
Ccl17	NM_011332.2	ABCD-2,Scya17,small inducible cytokine subfamily A17,TARC	chemokine (C-C motif) ligand 17	
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[a],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,Scya21,Scya21b,SLC,small inducible cytokine A21,small inducible cytokine A21b (leucine),small inducible cytokine A21b (leucine),Tca4	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)
Ccl22	NM_009137.2	ABCD-1,MDC,Scya22,small inducible cytokine subfamily A22	chemokine (C-C motif) ligand 22	
Ccl24	NM_019577.4	Ckb-6,eotaxin-2,MPIF-2,Scya24,small inducible cytokine A24	chemokine (C-C motif) ligand 24	
Ccl25	NM_009138.3	A1852536,Ckb15,expressed sequence A1852536,MGI:2142637,Scya25,small inducible cytokine A25,TECK	chemokine (C-C motif) ligand 25	
Ccl26	NM_001013412.2	Ccl26l,chemokine (C-C motif) ligand 26-like,eotaxin-3 ALP,AW558992,Ccl27,chemokine (C-C motif) ligand 27,CTACK,CTAK,ESkine,expressed sequence AW558992,IJC,MGI:1891388,MGI:2140607,mILC,PESKY,Scya27,Scya27a,skinskine	chemokine (C-C motif) ligand 26	
Ccl27a	NM_001048179.1	small inducible cytokine A27,small inducible cytokine A27a	chemokine (C-C motif) ligand 27A	
Ccl28	NM_020279.3	CKK1,Scya28,small inducible cytokine A28	chemokine (C-C motif) ligand 28	
Ccl3	NM_011337.1	A1323804,expressed sequence A1323804,G0519-1,L078alpha,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,Scya3,small inducible cytokine A3	chemokine (C-C motif) ligand 3	
Ccl4	NM_013652.2	Act-2,AT744,1,macrophage inflammatory protein-1 beta,MGD-MRK-12242,MGD-MRK-14335,Mip1b,MIP-1B,MIP-1 beta,Scya4,small inducible cytokine A4	chemokine (C-C motif) ligand 4	
Ccl5	NM_013653.3	MGD-MRK-14336,MuRantes,RANTES,Scya5,Sf5d,small inducible cytokine A5,TCP228	chemokine (C-C motif) ligand 5	
Ccl6	NM_009139.2	c10,MGD-MRK-14337,MRP-1,Scya6,small inducible cytokine A6	chemokine (C-C motif) ligand 6	
Ccl7	NM_013654.3	fic,marc,mc3,MCP-3,MGD-MRK-16289,Scya7,small inducible cytokine A7	chemokine (C-C motif) ligand 7	
Ccl8	NM_021443.2	1810063B2ORik,HC14,MCP-2,MGD-MRK-18704,MGI:1913124,MGI:1917105,RIKEN cDNA 1810063B20 gene,Scya8,small inducible cytokine A8	chemokine (C-C motif) ligand 8	
Ccl9	NM_011338.2	CCF18,MGD-MRK-25964,MGD-MRK-25965,MGI:104534,MIP-1 gamma,MRP-2,Scya10,Scya9,small inducible cytokine A10,small inducible cytokine A9	chemokine (C-C motif) ligand 9	
Ccna1	NM_007628.3	MGD-MRK-37078	cyclin A1	
Ccnb1	NM_172301.3	Ccnb1-rs13,Cycb-4,cyclin B1, related sequence 13,cyclin B4,MGC:18763,MGD-MRK-1814,MGD-MRK-2269	cyclin B1	
Ccnd1	NM_007631.1	A1327039,bcl-1,cD1,CycD1,Cyl-1,expressed sequence A1327039,MGD-MRK-1825,MGI:2141923,PRAD1	cyclin D1	
Ccnd2	NM_009829.3	2600016F06Rik,A1256817,BF642806,C86853,cD2,EST A1256817,expressed sequence BF642806,expressed sequence C86853,MGD-MRK-15396,MGD-MRK-15397,MGD-MRK-1826,MGI:1353647,MGI:1913821,MGI:2141781,MGI:2683668,RIKEN cDNA 2600016F06 gene,Vin1,Vin-1,viral integration site, radiation leukemia 9230106B05Rik,AA682053,AL024085,AW146355,C78795,expressed sequence AA682053,expressed sequence AL024085,expressed sequence AW146355,expressed sequence C78795,MGD-MRK-1827,MGI:1924959,MGI:2146781,MGI:2146960,MGI:2147051,MGI:2147125,RIKE n cDNA 9230106B05 gene	cyclin D2	
Ccnd3	NM_007632.2	AW538188,CycE1,cyclin E,expressed sequence AW538188,MGD-MRK-1828,MGI:2142245	cyclin D3	
Ccne1	NM_007633.2	AW538188,CycE1,cyclin E,expressed sequence AW538188,MGD-MRK-1828,MGI:2142245	cyclin E1	
Ccno	NM_001081062.1	C86987,Ccnu,cyclin U,expressed sequence C86987,Ung2,uracil DNA glycosylase 2	cyclin O	
Ccr2	NM_009915.2	CC-CCR-2,CCR2A,CCR2B,CCR2,CCR2A,CCR2B,Cmkbr2,MGD-MRK-33876	chemokine (C-C motif) receptor 2	
Ccr4	NM_009916.2	CC-CCR-4,chemokine (C-C) receptor 4,Cmkbr4,MGD-MRK-36401,MGD-MRK-37445	chemokine (C-C motif) receptor 4	
Ccr5	NM_009917.5	CD195,chemokine (C-C) receptor 5,Cmkbr5,MGD-MRK-35643	chemokine (C-C motif) receptor 5	
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	
Cd19	NM_009844.2	AW495831,expressed sequence AW495831,MGD-MRK-1833,MGI:2142241	CD19 antigen	
Cd1d1	NM_007639.3	A1747460,CD1.1,Cd1a,CD1a antigen,Cd1d,CD1d antigen,expressed sequence A1747460,Ly-38,lymphocyte antigen 38,MGD-MRK-11979,MGD-MRK-1834,MGD-MRK-1836,MGD-MRK-36249,MGI:2139791	CD1d1 antigen	
Cd2	NM_013486.2	LFA-2,Ly37,Ly-37,lymphocyte antigen 37,MGD-MRK-11978,MGD-MRK-1837	CD2 antigen	
Cd200r1	NM_021325.3	antigen identified by monoclonal antibody MRC OX-2 receptor,CD200R,Mox2r,OX2R	CD200 receptor 1	
Cd209e	NM_130905.2	mSIGNR4,SIGNR4	CD209e 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	
Cd247	NM_001113391.2	4930549J05Rik,AW552088,CD3 antigen, eta polypeptide,CD3 antigen, zeta polypeptide,CD3-eta,Cd3h,Cd3z,CD3zeta,CD3 zeta,CD3-zeta,CD3-zeta/eta,expressed sequence AW552088,MGD-MRK-14699,MGD-MRK-14930,MGD-MRK-1855,MGD-MRK-1856,MGD-MRK-1857,MGI:1922598,MGI:2138612,RIKEN cDNA 4930549J05 gene,T3z,T3-zeta chain,T-cell receptor zeta chain,TCRz,Tcrz	CD247 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,Pdcd1lg1,PD-L1,programmed cell death 1 ligand 1	CD274 antigen	
Cd276	NM_133983.4	6030411F23Rik,AU016588,B7h3,B7-H3,B7 homolog 3,B7RP-2,expressed sequence AU016588,MGI:2143194,RIKEN cDNA 6030411F23 gene	CD276 antigen	
Cd28	NM_007642.4	MGD-MRK-1845	CD28 antigen	
Cd300a	NM_170758.3	B230315M08Rik,C1m8,LMIR1,MAIR-I,MMAC8,Pigr4,RIKEN cDNA B230315M08 gene	CD300A molecule	
Cd36	NM_007643.3	FAT,fatty acid translocase,MGD-MRK-36478,Scar3	CD36 molecule	
Cd38	NM_007646.4	CD38 antigen, related sequence 1,Cd38-rs1,MGD-MRK-1851,MGD-MRK-36041	CD38 antigen	
Cd3d	NM_013487.3	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	Ct3g,Ct3-g,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,H1GM1,IMD3,Ly62,Ly-62,lymphocyte antigen 62,MGD-MRK-12004,MGD-MRK-12047,MGD-MRK-1860,T-BAM,Tnfrsf5,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
Cd47	NM_010581.3	9130415E20Rik,AA407862,AI848868,AW108519,B430305P08Rik,expressed sequence AA407862,expressed sequence AI848868,expressed sequence AW108519,JAP, integrin-associated protein,Itgp,MGD-MRK-11496,MGI:1918837,MGI:1925789,MGI:2146333,MGI:2146503,MGI:2146621,RIKEN cDNA 9130415E20 gene,RIKEN cDNA B430305P08 gene	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)
Cd48	NM_007649.4	AI449234,AW610730,B-cell membrane protein 1,Bcm-1,BCM1,BLAST-1,expressed sequence AI449234,expressed sequence AW610730,MGD-MRK-1529,MGD-MRK-1865,MGI:2138248,MGI:2138623,Sgp-60	CD48 antigen
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
Cd6	NM_001037801.2	MGD-MRK-24451	CD6 antigen
Cd68	NM_009853.1	gp110,Lamp4,macrosialin,MGD-MRK-1868,Scard1	CD68 antigen
Cd69	NM_001033122.3	5830438K24Rik,AI452015,AIM,EST AI452015,MGD-MRK-1869,MGI:1889838,MGI:1923299,RIKEN cDNA 5830438K24 gene,VEA	CD69 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,la-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,Igalpha,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)
Cd79b	NM_008339.2	B29,Ig,b,Igbeta,Ig-beta,immunoglobulin-associated beta,MGD-MRK-11225	CD79b antigen
Cd80	NM_009855.2	B7-1,B7-1,CD28 antigen ligand,Cd28,Ly53,Ly-53,lymphocyte antigen 53,MGD-MRK-11996,MGD-MRK-12039,MGD-MRK-1846,MGD-MRK-18582	CD80 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	BB154331,expressed sequence BB154331,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	1700109I2Rik,MGI:1920816,RIKEN cDNA 1700109I2 gene,Tactile	CD96 antigen
Cdc20	NM_023223.2	2310042N09Rik,C87100,expressed sequence	cell division cycle 20
Cdc25c	NM_009860.2	C87100,MGI:1913810,MGI:2146726,p55CDC,RIKEN cDNA 2310042N09 gene	cell division cycle 25C
Cdh1	NM_009864.2	AA960649,Ecad,E-cad,E-cadherin,expressed sequence AA960649,L-CAM,MGD-MRK-15349,MGD-MRK-1881,MGD-MRK-19360,MGI:2142457,Um,UM,uvomorulin	cadherin 1
Cdh11	NM_009866.5	Cad11,MGD-MRK-15974,OB-cadherin,osteoblast-cadherin	cadherin 11
Cdh2	NM_007664.5	cadherin, N-,MGD-MRK-12785,MGD-MRK-1882,Ncad,N-cadherin	cadherin 2
Cdh5	NM_009868.4	7B4/cadherin-5,AA408225,CD144,expressed sequence AA408225,MGD-MRK-32096,MGI:2142402,VEC,VE-cad,VE-Cad,VE-cadherin,VECD	cadherin 5
Cdk2	NM_016756.4	A630093N05Rik,MGD-MRK-28064,MGI:2443873,RIKEN cDNA A630093N05 gene	cyclin-dependent kinase 2
Cdk6	NM_009873.2	A1504062,CD-c2-related kinase 2,Crk2,expressed sequence A1504062,MGD-MRK-2146,MGI:2140921,MGI:88503	cyclin-dependent kinase 6
Cdkn1a	NM_007669.4	CAP20,CDKI,Cdkn1,CIP1,cyclin dependent kinase inhibitor,mda5,MGD-MRK-16760,MGD-MRK-25990,P21,p21Cip1,p21Waf,p21<WAF1>SDI1,Waf1	cyclin-dependent kinase inhibitor 1A (P21)
Cdkn1c	NM_009876.3	AlO24410,CDKI,expressed sequence AlO24410,Kip2,MGD-MRK-25998,MGI:2142098,p57Kip2	cyclin-dependent kinase inhibitor 1C (P57)
Cdkn2a	NM_001040654.1	Arf,ARF-INK4a,INK4a/Arf,INK4a-ARF,MGD-MRK-23975,MGD-MRK-27101,MGI:103111,MTS1,p16,p16INK4a,p19ARF,p19<ARF>,Pctr1,plasmacytoma resistance 1	cyclin-dependent kinase inhibitor 2A
Cdkn2b	NM_007670.4	AV083695,expressed sequence AV083695,MGD-MRK-27100,MGI:2140526,MTS2,p15,p15INK4b	cyclin-dependent kinase inhibitor 2B (p15, inhibits CDK4)
Ceacam3	NM_054059.1	cea12,EG384557,MGI:1891356,predicted gene, EG384557,pregnancy-specific glycoprotein 24, Psg24	carcinoembryonic antigen-related cell adhesion molecule 3
Cebpb	NM_009883.4	C/EBPbeta,C/EBP BETA,CRP2,IL-6DBP,LAP,LIP,MGD-MRK-12827,MGD-MRK-1917,MGI:97310,Nfil6,NF-IL6,NF-M,nuclear protein Ii6	CCAAT/enhancer binding protein (C/EBP), beta
Cenpf	NM_001081363.2	6530404A22Rik,AI325968,expressed sequence AI325968,Lek1,Lek1 protein,leucine, glutamic acid, lysine family 1	centromere protein F
Cep55	NM_028760.1	6530404A22 gene,RIKEN cDNA A330063D19 gene	centrosomal protein 55
Ces3a	NM_001164681.1	1200008012Rik,2700032M20Rik,MGI:1919843,RIKEN cDNA 1200008012 gene,RIKEN cDNA 2700032M20 gene	carboxylesterase 3A
Chd9	NM_177224.2	E31,Es-male carboxylesterase,esterase 31,MGD-MRK-19680	chromodomain helicase DNA binding protein 9
Chuk	NM_001162410.1	1810014J18Rik,9030205D12Rik,A330063D19Rik,AD013,MGI:1924942,MGI:2444510,mKIAA0308,RIKEN cDNA 1810014J18 gene,RIKEN cDNA 9030205D12 gene,RIKEN cDNA A330063D19 gene	conserved helix-loop-helix ubiquitous kinase
Clec14a	NM_025809.5	A1256658,Chuk1,expressed sequence A1256658,IKkappaB kinase alpha,IKK1,IKK1,IKK-1,IKK[a],IKKalpha,IKK alpha,IKK-alpha,MGD-MRK-16258,MGI:2147493	C-type lectin domain family 14, member a
Clec4e	NM_019948.2	1200003C3Rik,AI642649,expressed sequence AI642649,MGI:2144870,RIKEN cDNA 1200003C23 gene	C-type lectin domain family 4, member e
Clec5a	NM_001038604.1	C86253,Clecsf9,C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9,expressed sequence C86253,MGI:2141778,Mincle	C-type lectin domain family 5, member a
Clec7a	NM_020008.2	Clecsf5,C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 5,Ly100,MDL-1,myeloid DAP12-associating lectin-1	C-type lectin domain family 7, member a
Cmkrl1	NM_008153.3	beta-glucan receptor,beta-GR,BGR,Clecsf12,C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 12,dectin-1	chemokine-like receptor 1
Cmtm4	NM_153582.5	ChemR23,Gpcr27,G-protein coupled receptor 27,MGD-MRK-39602	CKLF-like MARVEL transmembrane domain containing 4
Cmtm6	NM_026036.3	2810051A14Rik,AA536733,chemokine-like factor super family 6,Cklsf6,expressed sequence AA536733,MGI:1914463,MGI:2142952,RIKEN cDNA 2810051A14 gene	CKLF-like MARVEL transmembrane domain containing 6
Cntrf	NM_001146080.1	Cntrfalpha,MGD-MRK-16390	ciliary neurotrophic factor receptor
Col11a1	NM_007729.2	C530001D20Rik,cho,ochondrodysplasia,MGD-MRK-1972,MGD-MRK-2053,MGI:1924905,RIKEN cDNA C530001D20 gene	collagen, type XI, alpha 1
Col11a2	NM_009926.2	MGD-MRK-2054	collagen, type XI, alpha 2
Col17a1	NM_007732.2	BP180,Bpag,Bpag2,BPAG2,bullous pemphigoid antigen,bullous pemphigoid antigen 2 (180 kDa),MGD-MRK-1612,MGD-MRK-1614,MGD-MRK-2057	collagen, type XVII, alpha 1
Col4a5	NM_001163155.1	MGD-MRK-2070	collagen, type IV, alpha 5
Col5a1	NM_015734.2	A1413331,expressed sequence A1413331,MGD-MRK-2071,MGI:2138923	collagen, type V, alpha 1
Col6a3	XM_897036.2	A1507288,Col6a-3,expressed sequence A1507288,MGD-MRK-2075,MGD-MRK-2078,MGI:2138284,procollagen type VI, alpha 3	collagen, type VI, alpha 3
Comp	NM_016685.2	MGD-MRK-2091,thrombospondin-5,TP5	cartilage oligomeric matrix protein
Cpa3	NM_007753.2	mast cell carboxypeptidase A,MC-CPA,MGD-MRK-2103,mMC-CPA	carboxypeptidase A3, mast cell
Crabp2	NM_007759.2	A1893628,Crabp-2,Crabpl1,expressed sequence A1893628,MGD-MRK-2127,MGD-MRK-2129,MGI:2139840	cellular retinoic acid binding protein II

Csf1	NM_001113529.1	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	colony stimulating factor 1 (macrophage)
Csf1r	NM_001037859.1	A1323359,CD115,c-fms oncogene,CSF-1R,Csfmr,expressed sequence A1323359,Fin2,Fin2,Fms,Friend MuLV integration site 2,M-CSFR,MGD-MRK-2192,MGD-MRK-9798,MGD-MRK-9845,MGI:2147208,MGI:88535	colony stimulating factor 1 receptor
Csf2	NM_009969.4	colony stimulating factor, granulocyte macrophage,Csfgm,Gm-CSF,GMCSF,MGD-MRK-2187,MGI:88531,MGI-HGM	colony stimulating factor 2 (granulocyte-macrophage)
Csf2rb	NM_007780.4	A1848964,AIC2B,Bc,beta c,CDw131,colony stimulating factor 2 receptor, beta 1, low-affinity (granulocyte-macrophage),colony stimulating factor, granulocyte macrophage receptor, beta chain,common beta chain,Csf2rb1,Csfgmr,expressed sequence A1848964,I13r,I13rb,I13rb1,I15rb,interleukin 3 receptor beta chain,interleukin 3 receptor, beta chain 1,interleukin 5 receptor beta,MGD-MRK-11380,MGD-MRK-11382,MGD-MRK-11383,MGD-MRK-11390,MGD-MRK-2189,MGI:2146084,MGI:96554	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
Csf3	NM_009971.1	colony stimulating factor, granulocyte,Csfg,G-CSF,MGD-MRK-2186,MGI:88530,MGI-IG	colony stimulating factor 3 (granulocyte)
Csf3r	NM_001252651.1	CD114,colony stimulating factor, granulocyte receptor,CsfgR,G-CSFR,MGD-MRK-2190,MGI:88533	colony stimulating factor 3 receptor (granulocyte)
Ctla4	NM_009843.3	CD152,CD152 antigen,Ctla-4,cytotoxic T lymphocyte-associated protein 4,Ly-56,MGD-MRK-2224,MGD-MRK-2234	cytotoxic T-lymphocyte-associated protein 4
Ctnnb1	NM_007614.3	batface,beta catenin,beta-catenin,Bfc,catenin beta,Catnb,MGD-MRK-1775,MGI:2656732	catenin (cadherin associated protein), beta 1
Ctss	NM_021281.3	Cat S,MGD-MRK-35807	cathepsin S
Ctsw	NM_009985.5	lymphopain	cathepsin W
Cx3c1	NM_009142.3	AB030188,A1848747,CX3C,D8Bwg0439e,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	chemokine (C-X3-C motif) ligand 1
Cx3cr1	NM_009987.3		chemokine (C-X3-C motif) receptor 1
Cxcl1	NM_008176.1	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-X-C motif) ligand 1
Cxcl10	NM_021274.1	C7,CRG-2,gp10,Ilf10,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 10
Cxcl11	NM_019494.1	betaR1,b-R1,H174,IP9,ITAC,I-TAC,Scyb11,SCYB9B,small inducible cytokine subfamily B (Cys-X-Cys), member 11	chemokine (C-X-C motif) ligand 11
Cxcl12	NM_013655.4	A1174028,expressed sequence A1174028,MGD-MRK-16620,MGD-MRK-16621,MGD-MRK-24440,MGI:2141381,PBSF,PBSF/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 12
Cxcl13	NM_018866.2	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 13
Cxcl14	NM_019568.2	1110031L23RIK,1200006I23RIK,A1414372,BRAK,expressed sequence A1414372,Kec,MGI:1915056,MGI:1915961,MGI:2145226,MIP-2g,RIKEN cDNA 1110031L23 gene,RIKEN cDNA 1200006I23 gene,Scyb14,small inducible cytokine subfamily B (Cys-X-Cys), member 14	chemokine (C-X-C motif) ligand 14
Cxcl15	NM_011339.2	I18,interleukin 8,lungkine,Scyb15,small inducible cytokine subfamily B, member 15,weche	chemokine (C-X-C motif) ligand 15
Cxcl16	NM_023158.6	0910001K24RIK,AV290116,BB024863,expressed sequence AV290116,expressed sequence BB024863,MGI:1913352,MGI:2144468,MGI:2144594,RIKEN cDNA 0910001K24 gene,Scavenger Receptor,SR-PSOX,SR-PSOX/CXCL16	chemokine (C-X-C motif) ligand 16
Cxcl2	NM_009140.2	CINC-2a,Gro2,GROb,macrophage inflammatory protein 2,MGD-MRK-12243,MGD-MRK-14338,MGI:96991,MGI:98264,Mgsa-b,Mip2,MIP-2,MIP-2a,Scyb,Scyb2,small inducible cytokine B subfamily,small inducible cytokine subfamily, member 2	chemokine (C-X-C motif) ligand 2
Cxcl3	NM_203320.2	Dcip1,gene model 1960, (NCBI),Gm1960	chemokine (C-X-C motif) ligand 3
Cxcl5	NM_009141.2	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 5
Cxcl9	NM_008599.2	BB139920,CMK,crq-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 9
Cxcr2	NM_009909.3	CD128,chemokine (C-X-C) receptor 2,Cmkar2,Gpr16,G-protein coupled receptor 16,IL8RA,IL8rb,IL-8rb,IL-8Rh,interleukin 8 receptor, beta,interleukin 8 receptor, beta,MGD-MRK-11396,MGD-MRK-16347,MGD-MRK-32344,MGI:99567	chemokine (C-X-C motif) receptor 2
Cxcr3	NM_009910.2	CD183,chemokine (C-X-C) receptor 3,Cmkar3	chemokine (C-X-C motif) receptor 3
Cxcr4	NM_009911.3	b2b22C10,CD184,chemokine (C-X-C) receptor 4,Cmkar4,fusin,MGD-MRK-39562,MGI:5311025,Mutant line 220,PB-CR,Sdf1r	chemokine (C-X-C motif) receptor 4
Cxcr5	NM_007551.2	Blr1,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 5
Cxcr6	NM_030712.4	BB217514,BONZO,expressed sequence BB217514,MGI:2143371,STRL33	chemokine (C-X-C motif) receptor 6
Cybb	NM_007807.5	C88302,Cgd,expressed sequence C88302,gp91phox,gp91-phox,MGD-MRK-1965,MGD-MRK-2263,MGI:2148082,Nox2	cytochrome b-245, beta polypeptide
Dab2	NM_023118.5	5730435J12RIK,AA960054,AI957090,D15Wsu122e,D630005822RIK,DNA segment, Chr 15, Wayne State University 122, expressed,expressed sequence AA960054,expressed sequence AI957090,MGD-MRK-35708,MGD-MRK-38219,MGI:107243,MGI:1917805,MGI:2145932,MGI:2146101,MGI:3045240,p96, RIKEN cDNA 5730435J12 gene,RIKEN cDNA D630005822 gene	disabled 2, mitogen-responsive phosphoprotein
Ddb2	NM_028119.5	2610043A19RIK,MGI:1919388,p48,RIKEN cDNA 2610043A19 gene	damage specific DNA binding protein 2
Deptor	NM_001037937.3	4731402B04RIK,9130412E02RIK,D15Ertd336e,D15Ertd597e,Depdc6,DEP domain containing 6,DNA segment, Chr 15, ERATO Doi 336, expressed,DNA segment, Chr 15, ERATO Doi 597, expressed,expressed sequence R75183,MGI:1196436,MGI:1289169,MGI:1918827,MGI:1921823,R75183,RIKEN cDNA 4731402B04 gene,RIKEN cDNA 9130412E02 gene	DEP domain containing MTOR-interacting protein
Dkk1	NM_010051.3	mdkk-1	dickkopf WNT signaling pathway inhibitor 1
Dll1	NM_007865.3	Delta1,MGD-MRK-26099	delta like canonical Notch ligand 1
Dll4	NM_019454.3	Delta4	delta like canonical Notch ligand 4
Dnmt1	NM_010066.3	Cxnc9,Dnmt10,MGD-MRK-12204,MGD-MRK-12206,MGD-MRK-8877,MGI:3586536,modifier of murine metastable epialleles, D2,MommeD2,MTase	DNA methyltransferase (cytosine-5) 1
Dpp4	NM_001159543.1	CD26,CD26 antigen,Dpp-4,MGD-MRK-1843,MGD-MRK-8884,MGD-MRK-8887,THAM	dipeptidylpeptidase 4
Dsc3	NM_007882.3	5430426I24RIK,MGI:1918578,RIKEN cDNA 5430426I24 gene	desmocollin 3
Dtx3l	NM_001013371.2	AU042200,BC023741,cDNA sequence BC023741,expressed sequence AU042200,MGI:3035479	deltex 3-like, E3 ubiquitin ligase
Dtx4	NM_172442.3	A1449438,BC044798,cDNA sequence BC044798,expressed sequence A1449438,MGI:2147542,RNF155	deltex 4, E3 ubiquitin ligase
Dusp1	NM_013642.3	3CH134,erp,expressed sequence U19515,MGD-MRK-32161,MGI:2147160,mkp-1,MKP1,protein tyrosine phosphatase, non-receptor type 16,Ptpn16,U19515	dual specificity phosphatase 1
Dusp2	NM_010090.2	MGD-MRK-18740,PAC1	dual specificity phosphatase 2
Dusp5	NM_001085390.1	gene model 337, (NCBI),Gm337,LOC240672	dual specificity phosphatase 5
E2f3	NM_010093.3	E2f3a,E2f3b,mKIAA0075	E2F transcription factor 3

Edn1	NM_010104.3	ET-1,MGD-MRK-9298	endothelin 1
Egf	NM_010113.4	A1790464,expressed sequence A1790464,MGD-MRK-9315,MGI:2139798 903002415RIK,AI552599,avian erythroblastic leukemia viral (erb-b) oncogene homolog,avian erythroblastosis oncogene B,Erbb,Erbb1,expressed sequence AI552599,MGD-MRK-15422,MGD-MRK-15424,MGD-MRK-9322,MGD-MRK-9570,MGI:1890525,MGI:2144221,RIKEN cDNA 903002415 gene,wa2,wa-2,Wa5,waved 2,waved 5	epidermal growth factor
Egfr	NM_207655.2	A530045N19RIK,Egr-1,ETR103,Krox-1,Krox24,Krox-24,Kruppel box 1,Kruppel box 24,MGD-MRK-11608,MGD-MRK-11621,MGD-MRK-15902,MGD-MRK-9324,MGD-MRK-9326,MGI:2444717,NGF1-A,NGFIA,NGFI-A,RIKEN cDNA A530045N19 gene,TIS8,Zenk,Zfp-6,Zif268,zinc finger protein 6	epidermal growth factor receptor
Egr1	NM_007913.5	2310047A08RIK,4732414G15RIK,AI467567,AI747578,dsRNA-activated kinase,eIF-2 alpha,eukaryotic translation initiation factor 2 alpha kinase 2,expressed sequence AI467567,expressed sequence AI747578,IFN-induced and double-stranded RNA-activated kinase,IFN- type I-induced and dsRNA-activated kinase,MGD-MRK-13612,MGD-MRK-15108,MGI:1924009,MGI:2146878,MGI:2146919,MGI:97761,MGI:98750,Pkr,Prkr,protein kinase, interferon inducible double stranded RNA dependent,protein kinase, interferon-inducible double stranded RNA dependent,RIKEN cDNA 2310047A08 gene,RIKEN cDNA 4732414G15 gene,T-cell viral integration site,Tik	early growth response 1
Eif2ak2	NM_011163.4	Eif2b,eukaryotic translation initiation factor 2B,MGD-MRK-9333	eukaryotic translation initiation factor 2-alpha kinase 2
Eif2b4	NM_010122.2	Eif2b,eukaryotic translation initiation factor 2B,MGD-MRK-9333	eukaryotic translation initiation factor 2B, subunit 4 delta
Eif4ebp1	NM_007918.3	24146,mgI:2142450,PHAS-1	eukaryotic translation initiation factor 4E binding protein 1
Elob	NM_026305.2	0610040H15RIK,18 kDa, elongin B,RIKEN cDNA 0610040H15 gene,Tceb2,transcription elongation factor B (SIII), polypeptide 2	elongin B
Eno1	NM_023119.2	2-phospho-D-glycerate hydrolase,AL022784,alpha-enolase,c-Myc promoter binding protein,Eno-1,expressed sequence AL022784,MBP-1,MGD-MRK-9503,MGD-MRK-9506,MGI:2143710	enolase 1, alpha non-neuron
Entpd1	NM_009848.3	2610206B08RIK,AA408691,Cd39,Cd39 antigen,ectoapyrase,expressed sequence AA408691,MGD-MRK-19713,MGI:1919726,MGI:2147438,NTPDase-1,RIKEN cDNA 2610206B08 gene	ectonucleoside triphosphate diphosphohydrolase 1
Eomes	NM_010136.2	C77258,expressed sequence C77258,MGI:1313283,MGI:2143384,T-box brain gene 2,Tbr2	eomesodermin
Epcam	NM_008532.2	CD326,EGP-2,Egp314,Ep-CAM,EpCAM1,epithelial glycoprotein 314,GA733-2,gp40,Ly74,lymphocyte antigen 74,MGD-MRK-35111,MGD-MRK-35182,panepithelial glycoprotein 314,Tacstd1,TROP1,tumor-associated calcium signal transducer 1	epithelial cell adhesion molecule
Epm2aip1	NM_175266.4	A930003G21RIK,mKIAA0766,RIKEN cDNA A930003G21 gene	EPMZA (laforin) interacting protein 1
ErbB2	NM_001003817.1	avian erythroblastosis oncogene B 2,c-erbB2,c-neu,Erbb-2,Erbb-2,HER2,HER-2,111Jus8,lethal, Chr 11, Justice 8,MGD-MRK-9571,MGD-MRK-9573,MGI:2671273,mKIAA3023,Neu,Neu oncogene	erb-b2 receptor tyrosine kinase 2
Ero1	NM_015774.3	AA420328,AU041214,ERa,ER[a],ERalpha,ER-alpha,ESR,Estr,Estra,estrogen receptor,estrogen receptor alpha,expressed sequence AA420328,expressed sequence AU041214,MGD-MRK-38393,MGD-MRK-9655,MGI:109348,MGI:2143478,MGI:3034239,Nr3a1	ERO1-like (S. cerevisiae)
Esr1	NM_007956.5	5730442G03RIK,MGI:1917804,Msa,RIKEN cDNA 5730442G03 gene	estrogen receptor 1 (alpha)
Exo1	NM_012012.4	enhancer of zeste homolog (Drosophila),Enx-1,Enx1h,KMT6,MGD-MRK-35129,MGD-MRK-36520,MGI:106670	exonuclease 1
Ezh2	NM_007971.2	Gpcr11,G-protein coupled receptor 11,MGD-MRK-18739,Par2,PAR-2,Protease-activated receptor-2,protease-activated receptor-2	enhancer of zeste 2 polycomb repressive complex 2 subunit
F2rl1	NM_007974.4	MGD-MRK-38369,Mort1/FADD	coagulation factor II (thrombin) receptor-like 1
Fadd	NM_010175.5	A830043J08RIK,RIKEN cDNA A830043J08 gene	Fas (TNFRSF6)-associated via death domain
Fam124b	NM_173425.3	AW208693,expressed sequence AW208693,MGI:2142773	family with sequence similarity 124, member B
Fanca	NM_016925.3	MGD-MRK-39607	Fanconi anemia, complementation group A
Fap	NM_007986.2	AI196731,APO-1,CD95,expressed sequence AI196731,lpr,lymphoproliferation,MGD-MRK-11878,MGD-MRK-9711,MGI:2147489,TNFR6,TNF receptor superfamily member 6,Tnfrsf6	fibroblast activation protein
Fas	NM_007987.2	APT1L1G1,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	Fas (TNF receptor superfamily member 6)
Fasl	NM_001205243.1	Fbp-2,Fbp3,FBPase brain isoform,FBPase liver,fructose biphosphatase 2,fructose biphosphatase 3,MGD-MRK-9720,MGD-MRK-9722,MGI:1330236	Fas ligand (TNF superfamily, member 6)
Fbp1	NM_019395.3	Fce1a,Fc epsilon high affinity receptor alpha,FcERI,Fcr-5,MGD-MRK-9724,MGD-MRK-9728,MGD-MRK-9741	fructose biphosphatase 1
Fcer1a	NM_010184.1	A1323638,AV092959,CD64,expressed sequence A1323638,expressed sequence AV092959,FcgammaRI,MGD-MRK-9732,MGI:2139673,MGI:2139933	Fc receptor, IgE, high affinity I, alpha polypeptide
Fcgr1	NM_010186.5	A1528646,CD32,expressed sequence A1528646,F630109E10RIK,Fc-gamma receptor 2,Fc-gamma receptor 3,FcgammaRIIb,Fc gamma RIIB,Fcgr2,Fcgr2a,FcgrRII,Fc[gamma]RII,Fcr-2,Fcr-3,Fc receptor, IgG, low affinity II, Fc receptor, IgG, low affinity IIIa,Ly-17,Lym-1,LyM-1,Ly-m20,lymphocyte antigen 17,lymphocyte antigen m20,MGD-MRK-11955,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, high affinity I
Fcgr2b	NM_001077189.1	CD16,FcgammaRIIIFc, Fcg receptor III,MGD-MRK-9736	Fc receptor, IgG, low affinity IIb
Fcgr3	NM_010188.5	4833442P21RIK,CD16-2,Fc fragment of IgG, low affinity IIIa, receptor,FcgammaRIV,Fcgr3a,MGI:2443436,RIKEN cDNA 4833442P21 gene	Fc receptor, IgG, low affinity III
Fcgr4	NM_144559.1	FcRn,MGD-MRK-23854,neonatal Fc receptor	Fc receptor, IgG, low affinity IV
Fcgrt	NM_010189.3	ficolin B	Fc receptor, IgG, alpha chain transporter
Fcfnb	NM_010190.1	Fc receptor related Y,FcRL2,FcRY,FREB2,FREB-2,mFCRL2	ficolin B
Fcrlb	NM_01029984.2	Fhf2,MGD-MRK-38222	Fc receptor-like B
Fgf13	NM_010200.2	D130055P09RIK,FGF-18,MGI:2441946,RIKEN cDNA D130055P09 gene	fibroblast growth factor 13
Fgf18	NM_008005.2	Eks,elbow knee synostosis,gliA activating factor,MGD-MRK-27086,MGI:2182125	fibroblast growth factor 18
Fgf9	NM_013518.4	AW208770,ear askew,Eask,expressed sequence AW208770,Fgfr-1,FGFR-1,Flt-2,FMS-like tyrosine kinase 2,Hspy,hush puppy,MGD-MRK-9776,MGD-MRK-9781,MGD-MRK-9833,MGI:2142774,MGI:2662561,MGI:3836280	fibroblast growth factor 9
Fgfr1	NM_010206.2	AL024016,expressed sequence AL024016,MGI:2145716	fibroblast growth factor receptor 1
Flnb	NM_134080.1	A1323757,expressed sequence A1323757,Flt-1,MGD-MRK-9832,MGD-MRK-9836,MGI:2140833,sFlt1,vascular endothelial growth factor receptor-1,VEGFR1,VEGFR-1	filamin, beta
Flt1	NM_010228.3	AW538199,expressed sequence AW538199, fra-1,Fra1,MGD-MRK-35640,MGI:2147739	FMS-like tyrosine kinase 1
Fos1	NM_010235.2	JM2,MGD-MRK-14368,MGI:98281,scurfin,scurfy,sf	fos-like antigen 1
Foxp3	NM_054039.2	fMLF-R,FRP,MGD-MRK-35914	forkhead box P3
Fpr1	NM_013521.2	formyl peptide receptor-like 1,formyl peptide receptor, related sequence	formyl peptide receptor 1
Fpr3	NM_008042.2	1,Fpr1,Fpr-rs1,Lxa4r,LXA4-R,MGI:1278320	formyl peptide receptor 3
Fstl3	NM_031380.2	E030038F23RIK,Flrg,MGI:2443015,RIKEN cDNA E030038F23 gene	folliculin-like 3
Fut4	NM_010242.3	3-fucosyl-N-acetyl-lactosamine epitope,AI451562,expressed sequence AI451562,FAL,FucT-IV,LeX,MGD-MRK-9894,MGI:2143062,Ssea1,SSEA-1	fucosyltransferase 4
Fyn	NM_008054.2	A1448320,AW552119,expressed sequence A1448320,expressed sequence AW552119,MGD-MRK-9909,MGI:2143602,MGI:2143864,Src Kinase p59	Fyn proto-oncogene
Fzd8	NM_008058.2	Fz8,mFZ8,MGD-MRK-37504	frizzled class receptor 8
Fzd9	NM_010246.1	AW554192,expressed sequence AW554192,Gas-1,MGD-MRK-9985,MGD-MRK-9992,MGI:2145453	frizzled class receptor 9
Gas1	NM_008086.1	Gata-3,jaI,juvenile alopecia,MGD-MRK-10000,MGD-MRK-10004,MGI:2181648	growth arrest specific 1
Gata3	NM_008091.3		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
Gbp3	NM_018734.3	AW228655,expressed sequence AW228655,MGI:2139979	guanylate binding protein 3
Ghr	NM_001048147.1	AA986417,expressed sequence AA986417,GHBP,GHR/BP,MGD-MRK-10070,MGI:2145937	growth hormone receptor
Gimap4	NM_001243199.1	AU019574,E430007K16Rik,expressed sequence AU019574,Ian1,immune associated nucleotide 1,MGI:2141562,RIKEN cDNA E430007K16 gene	GTPase, IMAP family member 4
Gimap6	NM_153175.3	4833419H03Rik,Ian6,immune associated nucleotide 6,RIKEN cDNA 4833419H03 gene	GTPase, IMAP family member 6
Gli1	NM_010296.2	AV235269,expressed sequence AV235269,MGD-MRK-10105,MGD-MRK-15893,MGD-MRK-15948,MGI:2143787,MGI:99196,Zfp5,Zfp-5,zinc finger protein 5	GLI-Kruppel family member GLI1
Gls	NM_001081081.2	A1314027,B230365M23Rik,expressed sequence A1314027,MGD-MRK-10135,MGI:2138193,MGI:2444416,RIKEN cDNA B230365M23 gene	glutaminase
Glud1	NM_008133.4	A118167,anonymous DNA segment, Chr 14,expressed sequence A118167,Gdh-X,Glud,Glud,glutamate dehydrogenase like sequence,MGD-MRK-10046,MGD-MRK-10136,MGD-MRK-10139,MGI:2145599	glutamate dehydrogenase 1
Glul	NM_008131.3	Glns,glutamine synthetase,G5,MGD-MRK-10117	glutamate-ammonia ligase (glutamine synthetase)
Gm5150	NM_001081687.1	381484,predicted gene, 381484	predicted gene 5150
Gmip	NM_198101.1	5031419I0Rik,RIKEN cDNA 5031419I10 gene	Gem-interacting protein
Gng4	NM_010317.2	4,MGD-MRK-19607	guanine nucleotide binding protein (G protein), gamma 4
Got1	NM_010324.2	A1789014,cAspAT,cytosolic aspartate aminotransferase,expressed sequence A1789014,Got-1,MGD-MRK-10213,MGD-MRK-10215,MGI:2147593	glutamic-oxaloacetic transaminase 1, soluble
Got2	NM_010325.2	AL022787,expressed sequence AL022787,FABP-pm,Got-2,Kyat4,mAspAT,MGD-MRK-10214,MGD-MRK-10216,MGI:2142656,mitochondrial aspartate aminotransferase,plasma membrane fatty acid binding protein	glutamatic-oxaloacetic transaminase 2, mitochondrial
Gpc4	NM_008150.2	9530073D23Rik,AF311610,A1385680,A1661372,expressed sequence AF311610,expressed sequence A1385680,expressed sequence A1661372,K-glypican,MGD-MRK-29056,MGI:1925872,MGI:2147881,MGI:2147905,MGI:2152785,RIKEN cDNA 9530073D23 gene	glypican 4
Gpr160	NM_001134386.1	1700025D19Rik,RIKEN cDNA 1700025D19 gene	G protein-coupled receptor 160
Gpsm3	NM_134116.5	AA960287,AGS4,expressed sequence AA960287	G-protein signalling modulator 3 (AGS3-like, C. elegans)
Gzma	NM_010370.2	AW494114,BLT esterase,C1a3,C1a-3,cytotoxic T lymphocyte-associated protein 3,expressed sequence AW494114,Hanukah 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,C1a1,C1a-1,cytotoxic T lymphocyte-associated protein 1,expressed sequence A1553453,GZB,MGD-MRK-2219,MGD-MRK-2229,MGD-MRK-38312,MGI:2145670	granzyme B
Gzme	NM_010373.3	CCP3,C1a6,C1a-6,cytotoxic T lymphocyte-associated protein 6,MCSF-2,MGD-MRK-2226,MGD-MRK-2236,MGD-MRK-38310	granzyme E
H2-Aa	NM_010378.2	Aalpha,A alpha,H-2Aa,histocompatibility 2, class II antigen A alpha,Ia1,Ia-1,I-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_207105.3	Abeta,A beta,A1845868,expressed sequence A1845868,H-2Ab,H2-Ab,histocompatibility 2, class II antigen A, beta,Ia2,Ia-2,IAb,I-A-cb,I-Abeta,I 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-2D1,MGD-MRK-10379,MGD-MRK-10492	histocompatibility 2, D region locus 1
H2-DMa	NM_010386.4	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,beta1,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
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,Hm1,MGD-MRK-10400,MGD-MRK-10511,MGD-MRK-10801,R4B2	histocompatibility 2, M region locus 3
H2-Ob	NM_010389.3	A-beta2,A-beta-2,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, O region beta locus
H2-Pa	ENSMUST00000182803.1	MGD-MRK-32355	histocompatibility 2, P region alpha locus
H2-Q1	NM_010390.3	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	histocompatibility 2, Q region locus 10
H2-Q2	NM_010392.2	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 2
H2-T23	NM_010398.3	37b,37c,H-2T23,MGD-MRK-10439,MGD-MRK-10553,Qa1,Qa-1,Qed-1,T18c,T18c(37),T23b,T23d	histocompatibility 2, T region locus 23
H2afx	NM_010436.2	AW228881,expressed sequence AW228881,gammaH2ax,H2ax,H2AX,histone,Hist5-2ax,histone 5 protein 2ax,MGD-MRK-19571,MGD-MRK-19591,MGI:2143303	H2A histone family, member X
Havr2	NM_134250.2	T-cell immunoglobulin and mucin domain containing 3,Tim3,TIM-3,Timd3	hepatitis A virus cellular receptor 2
Hc	NM_010406.2	C5,C5a,He,MGD-MRK-10645,MGD-MRK-10689,MGD-MRK-1703	hemolytic complement
Hck	NM_010407.3	A1849071,B-cell myeloid kinase,Bmk,expressed sequence A1849071,Hck-1,hemopoietic cell kinase 1,MGD-MRK-10666,MGD-MRK-10667,MGD-MRK-1590,MGI:2139076	hemopoietic cell kinase
Hdac11	NM_144919.2	MGC:27683	histone deacetylase 11
Hdac3	NM_010411.2	AW537363,expressed sequence AW537363,MGI:2147071	histone deacetylase 3
Hdac4	XM_00629302.1	4932408F19Rik,AI047285,expressed sequence AI047285,MGI:3034516,RIKEN cDNA 4932408F19 gene	histone deacetylase 4
Hdac5	NM_010412.3	A1426555,expressed sequence A1426555,MGI:2144155,mHDA1,mKIAA0600	histone deacetylase 5
Hdc	NM_008230.6	AW108189,expressed sequence AW108189,Hdc-a,Hdc-c,Hdc-e,Hdc-s,histidine decarboxylase concentration (kidney),histidine decarboxylase estrogen response,histidine decarboxylase, structural (kidney),histidine decarboxylase testosterone response,L-histidine decarboxylase,MGD-MRK-10682,MGD-MRK-10683,MGD-MRK-10684,MGD-MRK-10685,MGD-MRK-10686,MGI:2139302,MGI:96063,MGI:96064,MGI:96065,MGI:96066	histidine decarboxylase
Hells	NM_008234.3	A1323785,E130115I21Rik,expressed sequence A1323785,LSH,lymphoid specific helicase,Lysh,MGD-MRK-33900,MGD-MRK-33901,MGI:106208,MGI:1925121,MGI:2147507,PASG,proliferation-associated SNF2-like,RIKEN cDNA E130115I21 gene,YFK8	helicase, lymphoid specific
Herc6	NM_025992.2	1700121D12Rik,2510038N07Rik,4930427L17Rik,A1451296,CEB1,EST	helicase, lymphoid specific
Hes1	NM_008235.2	5,Herc5,MGI:1889836,MGI:1921562,MGI:1921870,RIKEN cDNA 1700121D12 gene,RIKEN cDNA 2510038N07 gene,RIKEN cDNA 4930427L17 gene	hert domain and RLD 6
Hey1	NM_010423.2	bHLHb39,hairy (Drosophila) homolog,Hry,MGD-MRK-10940,MGD-MRK-28150	hes family bHLH transcription factor 1
Hey1	NM_010423.2	A1316788,A1414254,bHLHb31,CHF2,expressed sequence A1316788,expressed sequence A1414254,Herp2,hesr-1,Hesr1,HRT1,MGI:2139670,MGI:2139691	hairy/enhancer-of-split related with YRPW motif 1

Hif1a	NM_010431.2	AA959795,bHLHe78,expressed sequence AA959795,HIF1alpha,HIF-1alpha,MGD-MRK-35370,MGI:2144750,MOP1	hypoxia inducible factor 1, alpha subunit
Hk1	NM_001146100.1	BB404130,dea,downeast anemia,expressed sequence BB404130,Hk-1,Hk1-s,MGD-MRK-10735,MGD-MRK-10736,MGI:1891296,MGI:3035452,mHk1-s	hexokinase 1
Hk2	NM_013820.3	A1642394,expressed sequence A1642394,HKI1,MGI:2141455	hexokinase 2
Hmga1	NM_001166545.1	AL023995,expressed sequence AL023995,high mobility group protein 1,Hmga1a,Hmga1b,Hmgi,Hmgly,HMG-(Y),HMG(Y),HMGY,MGD-MRK-10796,MGI:2144347	high mobility group AT-hook 1
Hmgb1	NM_010439.3	amphoterin,DEF,high mobility group protein 1,Hmg1,HMG-1,MGD-MRK-10748,p30,SBP-1	high mobility group box 1
Hnf1a	NM_009327.1	A1323641,expressed sequence A1323641,hepatic nuclear factor 1,hepatocyte nuclear factor 1,Hnf-1,HNF1,HNF1[a],Hnf1alpha,HNF1-alpha,LFB1,MGD-MRK-10803,MGD-MRK-14747,MGD-MRK-14753,MGI:2140832,Tcf1,Tcf-1,transcription factor 1	HNF1 homeobox A
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_001044751.1	11beta-HSD-1,11beta-hydroxysteroid dehydrogenase type 1,MGD-MRK-24447	hydroxysteroid 11-beta dehydrogenase 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
Icam2	NM_010494.1	CD102,Icam-2,MGD-MRK-11147,MGD-MRK-11150	intercellular adhesion molecule 2
Icam5	NM_008319.2	CD50,Icam3,intercellular adhesion molecule 3,MGD-MRK-18600,MGD-MRK-38475,MGI:101792,telencephalin,Tlcn,TLN	intercellular adhesion molecule 5, telencephalin
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,ICOS-L,LICOS,MGI:2143770,MGI:2652130	icos ligand
Id4	NM_031166.2	bHLHb27,ldb4,MGD-MRK-16175	inhibitor of DNA binding 4
Ido1	NM_008324.2	Ido,Indo,indole 2,3-dioxygenase,indole 2,4-dioxygenase,indoleamine-pyrrole 2,3-dioxygenase,MGD-MRK-11186	indoleamine 2,3-dioxygenase 1
Ier3	NM_133662.2	A1663993,cAMP inducible gene 3,ci-3,expressed sequence A1663993,gly96,IEX-1,MGD-MRK-28108,MGI:2146916	immediate early response 3
Ifi203	NM_001045481.1	MGD-MRK-11221	interferon activated gene 203
Ifi27	NM_026790.2	1110013J02Rik,2900026P10Rik,D12Etd647e,DNA segment, Chr 12, ERATO Doi 647, expressed, ifi27i1,interferon, alpha-inducible protein 27 like 1,MGI:1915877,MGI:1925649,RIKEN cDNA 1110013J02 gene,RIKEN cDNA 2900026P10 gene	interferon, alpha-inducible protein 27
Ifi35	NM_027320.4	2010008K16Rik,AW986054,expressed sequence	interferon-induced protein 35
Ifih1	NM_027835.3	AW986054,IFP35,MGI:2144592,RIKEN cDNA 2010008K16 gene	interferon induced with helicase C domain 1
Ifit1	NM_008331.2	9130009C22Rik,Helicard,MDA5,MDA-5,RIKEN cDNA 9130009C22 gene	interferon-induced protein with tetratricopeptide repeats 1
Ifit2	NM_008332.2	Ifi56,interferon inducible protein 56,IF56,MGD-MRK-16219	interferon-induced protein with tetratricopeptide repeats 1
Ifit3	NM_010501.1	AV302338,expressed sequence AV302338,Ifi54,interferon inducible protein 54,MGD-MRK-16218,MGI:2147678	interferon-induced protein with tetratricopeptide repeats 2
Ifitm1	NM_001112715.1	Ifi49,interferon inducible protein 49	interferon-induced protein with tetratricopeptide repeats 3
Ifitm2	NM_030694.1	1110036C17Rik,fragilis2,interferon induced transmembrane protein 2 like,Mil2,RIKEN cDNA 1110036C17 gene	interferon induced transmembrane protein 1
Ifna1	NM_010502.2	fragilis3,ifitm3,interferon induced transmembrane protein 3-like,mil-3	interferon induced transmembrane protein 2
Ifnar1	NM_010508.1	Ifa1,MGD-MRK-11201,MGD-MRK-36243	interferon alpha 1
Ifng	NM_008337.1	Ifa12,IFN-alpha/betaR,Ifrc,MGD-MRK-11211,MGD-MRK-11223,MGD-MRK-36233	interferon (alpha and beta) receptor 1
Ifng1	NM_010511.2	Ifg,IFN-gamma,MGD-MRK-11214,MGD-MRK-36231	interferon gamma
Ifng2	NM_008338.3	CD119,Ifgr,IFN-gammaR,IFN-gamma R,Ifngr,MGD-MRK-11215,MGD-MRK-36230,Nktar	interferon gamma receptor 1
Igf2r	NM_010515.2	Ifgr2,Ifgt,interferon gamma transducer,MGD-MRK-11216,MGD-MRK-25614,MGD-MRK-36229	interferon gamma receptor 2
Ihh	NM_010544.2	A1661837,CD222,Ci-MPR,expressed sequence A1661837,IGF-II/Ci-MPR,MGP/IGF2R,mannose-6-phosphate receptor, cation independent,MGD-MRK-11231,MGI:2146909,Mpr300	insulin-like growth factor 2 receptor
Ikbkb	NM_010546.2	MGD-MRK-11343	Indian hedgehog
Ikbkg	NM_001161423.1	A1132552,expressed sequence A1132552,IKK2,IKK-2,IKK[b],IKKbeta,IKK-beta,MGI:2142466	inhibitor of kappaB kinase beta
Ickf1	NM_009578.2	1110037D23Rik,AI848108,AI851264,AW124339,expressed sequence AI848108,expressed sequence AI851264,expressed sequence AW124339,IKK[g],MGI:1923574,MGI:2147920,MGI:2147925,MGI:2148001,NEMO	inhibitor of kappaB kinase gamma
Ickf2	NM_011770.4	,RIKEN cDNA 1110037D23 gene	inhibitor of kappaB kinase gamma
Ickf3	NM_011771.1	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
Il10	NM_010548.1	A730095J18Rik,Helios,lymphoid restricted transcription factor,MGI:1276117,MGI:2442076,RIKEN cDNA A730095J18 gene,Zfpn1a2,zinc finger protein, subfamily 1A, 2 (Helios)	IKAROS family zinc finger 2
Il10ra	NM_008348.2	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
Il11	NM_008350.2	cytokine synthesis inhibitory factor,IL-10,IL-10,MGD-MRK-11347,MGD-MRK-11361	interleukin 10
Il11ra1	NM_010549.3	AW553859,CDw210,expressed sequence AW553859,Il10r,interleukin 10 receptor,MGD-MRK-11362,MGI:2143329,mIL-10R	interleukin 10 receptor, alpha
Il12rb2	NM_008354.3	IL-11,MGD-MRK-36187	interleukin 11
Il15	NM_008357.2	A1314697,expressed sequence A1314697,Il11ra,Il-11ra,Il-11ra-alpha,interleukin 11 receptor, alpha chain,MGD-MRK-35897,MGI:3034462,NR1	interleukin 11 receptor, alpha chain 1
Il16	NM_010551.3	A93002718Rik,Ifnm,IL-12RB2,interferon response to microorganisms,MGI:1924481,MGI:2152339,RIKEN cDNA A93002718 gene	interleukin 12 receptor, beta 2
Il17a	NM_010552.3	A1503618,expressed sequence A1503618,MGD-MRK-23851,MGI:2142577	interleukin 15
Il18	NM_008360.1	Ctla8,Ctla-8,cytotoxic T lymphocyte-associated protein 8,Il17,IL-17A,interleukin 17,MGD-MRK-2228,MGD-MRK-2238,MGD-MRK-35831	interleukin 16
Il18bp	NM_010531.1	Igf,IL-18,interferon gamma inducing factor,MGD-MRK-36516	interleukin 17A
Il18r1	NM_001161842.1	Igf1bp,IL-18BP,interferon gamma inducing factor binding protein,MCS4L	interleukin 18
Il1a	NM_010554.4	Il18alpha,Il1rrp,interleukin 1 receptor related tein,MGD-MRK-33052	interleukin 18 binding protein
Il1b	NM_008361.3	Il-1a,MGD-MRK-11351,MGD-MRK-11366	interleukin 18 receptor 1
Il1r1	NM_010555.4	Il-1b,IL-1B,IL-1beta,MGD-MRK-11352,MGD-MRK-11367	interleukin 1 alpha
Il1r2	NM_001039701.3	CD121b,Il1r-2,IL-1 receptor beta chain,MGD-MRK-11370,MGD-MRK-11372	interleukin 1 beta
Il2	NM_008366.3	F630041P17Rik,IL-1ra,MGD-MRK-11373,MGI:2443250,RIKEN cDNA F630041P17 gene	interleukin 1 receptor, type II
Il21r	NM_021887.1	Il-2,IL-2,MGD-MRK-11353,MGD-MRK-11374	interleukin 1 receptor antagonist
Il22ra1	NM_178257.1	NILR	interleukin 2
Il23r	NM_144548.1	Il22r	interleukin 21 receptor
Il24	NM_053095.2	FISP,Mda-7	interleukin 22 receptor, alpha 1
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 23 receptor
Il2rb	NM_008368.3	CD122,IL15Rbeta,IL-15Rbeta,IL-15 receptor beta chain,IL-2/15Rbeta,IL-2Rbeta,MGD-MRK-11377	interleukin 24
Il2rg	NM_013563.3	CD132,common cytokine receptor gamma chain,common gamma chain,gamma[c],gammaC,gamma C receptor,gc[g],MGD-MRK-11378	interleukin 2 receptor, beta chain
Il33	NM_133775.1	9230117N10Rik,Ilif11,Il-33,NF-HEV,RIKEN cDNA 9230117N10 gene	interleukin 2 receptor, gamma chain
			interleukin 33

		2010004A03Rik,AI593503,expressed sequence AI593503,MGI:2142587,RIKEN	
Il34	NM_001135100.2	cDNA 2010004A03 gene	interleukin 34
Il4	NM_021283.1	IL-4,MGD-MRK-11355,MGD-MRK-11385	interleukin 4
Il6	NM_031168.1	IL-6,MGD-MRK-11357,MGD-MRK-11391	interleukin 6
Il6ra	NM_010559.2	CD126,Il6r,IL-6R,IL-6 receptor alpha chain,interleukin 6 receptor,MGD-MRK-11392,MGD-MRK-32345	interleukin 6 receptor, alpha
Il7r	NM_008372.3	CD127,IL-7Ralpha,IL-7 receptor alpha chain,MGD-MRK-11395	interleukin 7 receptor
Inhba	NM_008380.2	activin beta-A,MGD-MRK-11407	inhibin beta-A
Irf1	NM_008390.2	AU020929,expressed sequence AU020929,irf-1,MGD-MRK-11464,MGD-MRK-11465,MGI:2144403	interferon regulatory factor 1
Irf2	NM_008391.4	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
Irf5	NM_001252382.1	AW491843,expressed sequence AW491843,MGI:2141682,miRF5	interferon regulatory factor 5
Irf7	NM_016850.2	AI893568,expressed sequence AI893568,ICSBP,icsbp1,interferon consensus sequence binding protein 1,IRF-8,MGD-MRK-11151,MGI:2142648,MGI:3574547,myeloproliferative syndrome,MyIs	interferon regulatory factor 8
Irf8	NM_008320.3	interferon dependent positive acting transcription factor 3 gamma,irf-9,Isf3g,MGD-MRK-36159,p48	interferon regulatory factor 9
Irf9	NM_008394.2	100038882,G1p2,interferon, alpha-inducible protein,interferon-stimulated protein,MGI:3809535,predicted gene,100038882	
Isg15	NM_015783.3	CD49A,E130012M19Rik,MGD-MRK-11478,MGD-MRK-19432,MGI:2444353,RIKEN cDNA E130012M19 gene,Vla1	ISG15 ubiquitin-like modifier
Itga1	NM_001033228.3	CD49B,DX5,MGD-MRK-11479,VLA-2 receptor, alpha 2 subunit	integrin alpha 1
Itga2	NM_008396.2	MGD-MRK-11482,VLA-4 receptor, alpha 4 subunit	integrin alpha 2
Itga4	NM_010576.3	5033401005Rik,AI115430,Cd49f,expressed sequence AI115430,MGD-MRK-11484,MGI:1923212,MGI:2138837,RIKEN cDNA 5033401005 gene	integrin alpha 4
Itga6	NM_008397.4	alpha-E1,CD103	integrin alpha 6
Itgae	NM_008399.1	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 E, epithelial-associated
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	1110004F14Rik,2610028E01Rik,alphav-integrin,CD51,D430040G12Rik,MGD-MRK-11487,MGI:1923548,MGI:1923608,MGI:2445000,RIKEN cDNA 1110004F14 gene,RIKEN cDNA 2610028E01 gene,RIKEN cDNA D430040G12 gene,vitronectin receptor alpha polypeptide (VNRA)	integrin alpha M
Itgav	NM_008402.3	Ai449405,CD11c,CD11C (p150) alpha polypeptide,expressed sequence Ai449405,MGD-MRK-11488,MGI:2141963	integrin alpha V
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	CD61,MGD-MRK-11491,platelet glycoprotein IIIa (GP3A)	integrin beta 2
Itgb3	NM_016780.2	4832412006Rik,MGI:2445021,RIKEN cDNA 4832412006 gene	integrin beta 3
Itgb8	NM_177290.3	BC031182,cDNA sequence BC031182	integrin beta 8
Itpk1	NM_172584.3	ABE2,Gsfabe2,gsf abnormal behavior 2,headturner,Headturner,Htu,MGI:1891333,MGI:2664252,MGI:3530800,Ozzy,Serrate-1	inositol 1,3,4-triphosphate 5/6 kinase
Jag1	NM_013822.5	D12Ggc2e,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 1
Jag2	NM_010588.2	A9960307,BAP004,bone alkaline phosphatase mutant 004,C130039L05Rik,expressed sequence A9960307,MGD-MRK-11516,MGI:2140180,MGI:2443062,MGI:5425487,RIKEN cDNA C130039L05 gene	jagged 2
Jak1	NM_146145.2	A1504024,C81284,expressed sequence A1504024,expressed sequence C81284,MGD-MRK-11517,MGI:2147569,MGI:2147795	Janus kinase 1
Jak2	NM_008413.3	MGD-MRK-16730,MGI:3584392,MGI:3584403,wil,willow	Janus kinase 2
Jak3	NM_010589.6	AL022715,AW545708,Ctnng,D930025P04Rik,expressed sequence AL022715,expressed sequence AW545708,gamma-catenin,MGD-MRK-11544,MGI:2144342,MGI:2144558,PG,plakoglobin,RIKEN cDNA D930025P04 gene	Janus kinase 3
Jup	NM_010593.2	A930006P13Rik,AI461839,AW536563,expressed sequence AI461839,expressed sequence AW536563,MGI:2146869,MGI:2147070,MGI:2445128,p300/CBP-associated factor,Pcaf,RIKEN cDNA A930006P13 gene	junction plakoglobin
Kat2b	NM_020005.3	fetal liver kinase 1,Fik1,Fik-1,MGD-MRK-11605,MGD-MRK-11606,MGD-MRK-9826,MGD-MRK-9828,MGI:5004964,MGI:95555,orv,orio,vascular endothelial growth factor receptor-2,VEGFR2,VEGFR-2,VEGF receptor-2	K[lysine] acetyltransferase 2B
Kdr	NM_010612.2	4930402F02Rik,EST X83316,MGC:11883,MGD-MRK-28119,MGI:104825,RIKEN cDNA 4930402F02 gene,X83316	kinase insert domain protein receptor
Kif2c	NM_134471.4	Kir11,LOC245615	kinesin family member 2C
Kir3dl1	NM_177749.3	Kir2,LOC245615	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1
Kir3dl2	NM_177748.2	belly-spot,Bs,CD117,c-KIT,dominant spotting,Dominant white spotting,Fdc,Gfsco1,Gfsco5,Gfsow3,gfsf spotted coat 1,gfsf 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,SCO1,SC05,SOW3,spotted sterile male,Ssm,Steel Factor Receptor,Tr-kit,W Ly49a,Ly49A,Ly49o<129>,lymphocyte antigen 49 complex, locus A,MGD-MRK-18734	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2
Kit	NM_001122733.1	100043861,4930431A04Rik,Gm4696,Ly55,Ly-55,lymphocyte antigen 55,MGD-MRK-11998,MGD-MRK-12041,MGI:1914651,MGI:3782876,Nkpr1g,predicted gene,100043861,predicted gene 4696,RIKEN cDNA 4930431A04 gene	KIT proto-oncogene receptor tyrosine kinase
Klra1	NM_016659.3	100043861,4930431A04Rik,Gm4696,Ly55,Ly-55,lymphocyte antigen 55,MGD-MRK-11998,MGD-MRK-12041,MGI:1914651,MGI:3782876,Nkpr1g,predicted gene,100043861,predicted gene 4696,RIKEN cDNA 4930431A04 gene	killer cell lectin-like receptor, subfamily A, member 1
Klrb1	NM_001099918.1	CD94	killer cell lectin-like receptor subfamily B member 1
Klrd1	NM_010654.2	2F1-Ag	killer cell lectin-like receptor, subfamily D, member 1
Klrg1	NM_016970.1	D6H1252489E,DNA Segment, Chr 6, human D1252489E,Nkg2d,NKG2-D	killer cell lectin-like receptor subfamily G, member 1
Klrk1	NM_001083322.1	Ai929937,expressed sequence Ai929937,Ki-ras,Kirsten rat sarcoma oncogene 2, expressed,K-ras,Kras2,Kras-2,MGD-MRK-11597,MGD-MRK-11601,MGI:2141518	Kirsten rat sarcoma viral oncogene homolog
Kras	NM_021284.5	CD223,LAG-3,Ly66,lymphocyte antigen 66,MGD-MRK-35044	lymphocyte-activation gene 3
Lag3	NM_008479.2	5133400011Rik,BB115266,D7Bwg0421e,DNA segment, Chr 7, Brigham & Women's Genetics 0421 expressed,expressed sequence BB115266,Lair-1,MGD-MRK-33164,MGI:1918474,MGI:2142289,mLair-1,RIKEN cDNA 5133400011 gene	leukocyte-associated Ig-like receptor 1
Lair1	NM_001113474.1	AA408497,expressed sequence AA408497,Lama,laminin, A subunit,MGD-MRK-11733,MGD-MRK-16687,MGI:2146751	laminin, alpha 1
Lama1	NM_008480.2	MGD-MRK-16713,nicein,125kDa	laminin, beta 3
Lamb3	NM_008484.2	AA589349,expressed sequence AA589349,MGD-MRK-16711,MGI:2138115,nicein,100kDa	laminin, gamma 2
Lamc2	NM_008485.3	Hck-3,hemopoietic cell kinase 3,MGD-MRK-10669,MGD-MRK-11758,p56<lck>	lymphocyte protein tyrosine kinase
Lck	NM_001162433.1		

Ldha	NM_010699.2	I7R2,lactate dehydrogenase-A,Ldh1,Ldh-1,LDH-A,lethal, Chr 7, Oak Ridge 2, MGD-MRK-11762, MGD-MRK-11768, MGI:1890511	lactate dehydrogenase A
Ldhb	NM_008492.2	A1790582, expressed sequence AI790582, H-Ldh, lactate dehydrogenase-B, Ldh-2, MGD-MRK-11766, MGD-MRK-11772, MGI:2141472	lactate dehydrogenase B
Lgals9	NM_010708.1	AA407335, AI194909, AI265545, expressed sequence AA407335, expressed sequence AI194909, expressed sequence AI265545, gal-9, galectin-9, lectin, galactose binding, soluble 5, LGALS35, Lgals5, MGD-MRK-24103, MGD-MRK-39495, MGI:103231, MGI:2143968, MGI:2144080, MGI:2144105	lectin, galactose binding, soluble 9
Lif	NM_008501.2	MGD-MRK-11807	leukemia inhibitory factor
Lilra5	NM_001081239.2	EG232801, Gm4878, predicted gene 4878, predicted gene, EG232801	leukocyte immunoglobulin-like receptor, subfamily A (with TM domain), member 5
Lilrb4a	NM_013532.3	CD85k, glycoprotein 49 B, Gp49b, HM18, ILT3, leukocyte immunoglobulin-like receptor, subfamily B, member 4, Lilrb4, MGD-MRK-19605	leukocyte immunoglobulin-like receptor, subfamily B, member 4A
Lox12	NM_033325.2	1110004806Rik, 9430067E15Rik, MGI:1915706, MGI:2443992, RIKEN cDNA 1110004806 gene, RIKEN cDNA 9430067E15 gene	lysyl oxidase-like 2
Ltb	NM_008518.2	AI662801, expressed sequence AI662801, LTbeta, lymphotoxin beta, MGD-MRK-16192, MGD-MRK-28088, MGI:2146913, p33, Tnfc, Tnfsf3, tumor necrosis factor C	lymphotoxin B
Ly6c1	NM_010741.3	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	Ly6a (NM_001271417; NM_010738; NM_001271419; NM_001271416)
Ly6g	XM_909927.2	G1, Gr-1, Ly-6G, MGD-MRK-38485	lymphocyte antigen 6 complex, locus C
Ly9	NM_008534.2	AI893573, CD229, expressed sequence AI893573, Lgp100, Ly-9, MGD-MRK-12008, MGD-MRK-12051, MGI:2138373, SLAMF3, T100	lymphocyte antigen 9
Ly96	NM_016923.2	ESOP-1, MD2, MD-2, myeloid differentiation factor-2	lymphocyte antigen 96
Ly21	NM_013590.3	lysozyme, Lyz, Lzp-s, MGD-MRK-12088, P lysozyme structural, renal amyloidosis	lysozyme 1
Magea1	NM_020015.2	Mage-a1	Magea2 (NM_020016), Magea8 (NM_020020)
Magea3	NM_020017.2	Mage-a3	
Magea4	NM_020280.2	Mage-a4	
Mageb4	NM_001033492.2	CN716893, expressed sequence CN716893, Mage-b4, MGI:3584456, mMage-b4	melanoma antigen, family B, 4
Maml2	NM_001013813.3	BC032967, cDNA sequence BC032967, MGI:2679714	mastermind like transcriptional coactivator 2
Map3k12	NM_001163643.1	DLK, MGD-MRK-19592, MGI:102689, MUK, zipper (leucine) protein kinase, Zpk 7420452D20Rik, ASK, ASK1, Mek5, MEK kinase	mitogen-activated protein kinase kinase kinase 12
Map3k5	NM_008580.4	5, MGI:1101761, MGI:2445207, RIKEN cDNA 7420452D20 gene	mitogen-activated protein kinase kinase kinase 5
Map3k7	NM_172688.2	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 kinase 7
Map3k8	NM_007746.2	cancer Osaka thyroid, oncogene, c-COT, Cot, Cot/Tip2, MGD-MRK-15201, MGD-MRK-2095, MGI:88472, MGI:98808, Tpl2, Tpl-2, tumor progression locus 2	mitogen-activated protein kinase kinase kinase 8
Mapk10	NM_009158.2	C230008H04Rik, JNK3, MGD-MRK-36125, MGI:107554, MGI:2442453, p493F12, RIKEN cDNA C230008H04 gene, SAPK/Erk/kinase 2, Serk2	mitogen-activated protein kinase 10
Marco	NM_010766.2	AI323439, expressed sequence AI323439, MGI:2138205, Scar2	macrophage receptor with collagenous structure
Mb21d1	NM_173386.4	cGas, E330016A19Rik, RIKEN cDNA E330016A19 gene	Mab-21 domain containing 1
Mdm2	NM_010786.3	170000715Rik, AA415488, expressed sequence AA415488, Mdm-2, MGD-MRK-12169, MGD-MRK-12172, MGI:1916580, MGI:2143477, RIKEN cDNA 170000715 gene	transformed mouse 3T3 cell double minute 2
Melk	NM_010790.2	AI327312, expressed sequence AI327312, MGD-MRK-35385, MGI:2140251, mKIAA0175, MPK38	maternal embryonic leucine zipper kinase
Met	NM_008591.2	AI838057, c-Met, expressed sequence AI838057, HGF receptor, MGD-MRK-12203, MGI:1197520, MGI:2141478, Par4, pulmonary adenoma resistance 4	met proto-oncogene
Mfge8	NM_008594.2	AA408458, AI325141, EGF/Factor VIII, expressed sequence AA408458, expressed sequence AI325141, lactadherin, MFG-E8, Mfmg, MGD-MRK-19675, MGI:2141815, MGI:2141915, SED1	milk fat globule-EGF factor 8 protein
Mfng	NM_008595.2	AW546563, expressed sequence AW546563, manic fringe, MGI:2146229	MFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
Mgmt	NM_008598.2	Agat, AGT, AI267024, expressed sequence AI267024, MGD-MRK-1181, MGD-MRK-12222, MGI:2141895, MGI:87956, O-6-alkylguanine-DNA alkyltransferase	O-6-methylguanine-DNA methyltransferase
Miil2	NM_153760.2		MHC I like leukocyte 2
Mki67	NM_001081117.2	D630048A14Rik, Ki67, Ki-67, MGD-MRK-33719, MGI:2444351, RIKEN cDNA D630048A14 gene	antigen identified by monoclonal antibody Ki 67
Mlna	NM_029993.1	A930034P04Rik, Mart1, melanoma associated antigen recognized by T-cells 1, MGD-MRK-37498, MGI:1925086, RIKEN cDNA A930034P04 gene	melan-A
Mlh1	NM_026810.2	1110035C23Rik, AI317206, AI325952, AI561766, colon cancer, nonpolyposis type 2, expressed sequence AI317206, expressed sequence AI325952, expressed sequence AI561766, MGD-MRK-18771, MGI:1915937, MGI:2143018, MGI:2143023, MGI:2143094, RIKEN cDNA 1110035C23 gene	mutL homolog 1
Mmp12	NM_008605.3	AV378681, expressed sequence AV378681, macrophage elastase, macrophage metalloelastase, MGD-MRK-12275, MGI:2143275, Mmel	matrix metalloproteinase 12
Mmp13	NM_008607.1	Clg, collagenase-1, Collagenase-3, collagenase, fibroblast, interstitial collagenase, matrix metalloproteinase 1, MGD-MRK-12276, MGD-MRK-2012, MGI:97006, Mmp1, MMP-13	matrix metalloproteinase 13
Mmp1a	NM_032006.3	Mcol-A	matrix metalloproteinase 1a (interstitial collagenase)
Mmp7	NM_010810.4	MAT, matrilysin, MGD-MRK-24057	matrix metalloproteinase 7
Mmp9	NM_013599.2	AW743869, B/MMP9, Clg4b, 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
Mmrn2	NM_153127.3	AA986839, elastin microfibril interfacer 3, Emilin3, EndoGlyx-1, ENDOGLYX1, expressed sequence AA986839, MGI:2145589	multimerin 2
Mrc1	NM_008625.2	AW259686, CD206, expressed sequence AW259686, MGD-MRK-12537, MGI:2139335, MR	mannose receptor, C type 1
Mre11a	NM_018736.2	AA960661, Cd20, CD20 antigen, expressed sequence AA960661, Ly-44, lymphocyte antigen 44, MGD-MRK-11986, MGD-MRK-1838, MGI:2147465	MRE11A homolog A, double strand break repair nuclease
Msa4a1	NM_007641.5	Fce1b, Fc epsilon high affinity receptor beta, Fce1b, FcRb, FcRbeta, Fc receptor, IgE, high affinity I, beta polypeptide, MGD-MRK-9725, MGD-MRK-9729	membrane-spanning 4-domains, subfamily A, member 1
Msa4a2	NM_001276330.1	EG666907, predicted gene, EG666907	membrane-spanning 4-domains, subfamily A, member 2
Msa4a4	XM_003086124.1	1810027D10Rik, RIKEN cDNA 1810027D10 gene	membrane-spanning 4-domains, subfamily A, member 4A
Msa4a6b	NM_027209.3	AI788990, expressed sequence AI788990, MGD-MRK-18634, MGI:2146922	membrane-spanning 4-domains, subfamily A, member 6B
Msh2	NM_008628.2	AU044881, AW550279, expressed sequence AU044881, expressed sequence AW550279, GTBP, Gtmbp, G/T mismatch binding protein, MGD-MRK-35056, MGI:106600, MGI:2147004, MGI:2147080	mutS homolog 2
Msh6	NM_010830.1		mutS homolog 6
Mtor	NM_020009.2	2610315D21Rik, AI327068, expressed sequence AI327068, FK506 binding protein 12-rapamycin associated protein 1, FKBP-rapamycin-associated protein FRAP, flat, flat-top, Frap1, mechanistic target of rapamycin (serine/threonine kinase), MGI:1332655, MGI:1919780, MGI:2140250, RAFT1, RAPT1, RIKEN cDNA 2610315D21 gene	mechanistic target of rapamycin kinase
Mx1	NM_010846.1	AI893580, expressed sequence AI893580, MGD-MRK-12725, MGD-MRK-12726, MGD-MRK-12728, MGI:2146518, Mx, Mx-1, myxovirus (influenza) resistance 1 polypeptide	MX dynamin-like GTPase 1
Mxi1	NM_001008542.2	bHLHc11, Mad2, MGD-MRK-12730	MAX interactor 1, dimerization protein
Myc	NM_001177354.1	AU016757, bHLHc39, c-myc, expressed sequence AU016757, MGD-MRK-12736, MGI:2146128, Myc2, Niard, non-immunoglobulin rearranging DNA sequence	myelocytomatosis oncogene
Myc11	NM_026793.2	1110020804Rik, AI225941, AI642973, expressed sequence AI225941, expressed sequence AI642973, MGI:2143542, MGI:2143656, Mtmc1, MT-MC1, RIKEN cDNA 1110020804 gene	myc target 1

Myd88	NM_010851.2	MGD-MRK-37039	myeloid differentiation primary response gene 88
Nbn	NM_013752.3	Nbs1	nibrin
Ncam1	NM_001113204.1	CD56,E-NCAM,MGD-MRK-12786,NCAM,NCAM-1,NCAM-120,NCAM-140,NCAM-180	neural cell adhesion molecule 1
Ncr1	NM_010746.3	Ly94,lymphocyte antigen 94,MAR1 (mouse activating receptor 1),NKp46	natural cytotoxicity triggering receptor 1
Ndufa4l2	NM_001098789.1	BC064011,cDNA sequence BC064011	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 4-like 2
Nectin1	NM_021424.2	A1835281,AW549174,Cd111,expressed sequence A1835281,expressed sequence AW549174,HlgR,HveC,MGI:2143125,MGI:2143319,nectin-1,poliovirus receptor-related 1,PRR,PRR1,Pvr1	nectin cell adhesion molecule 1
Nectin2	NM_008990.3	A1325026,A1987993,Cd112,expressed sequence A1325026,expressed sequence A1987993,MGD-MRK-13693,MGD-MRK-13694,MGI:2141913,MGI:2142081,MPH,nectin-2,poliovirus receptor,poliovirus receptor-related 2,poliovirus sensitivity,Pvr,Pvr2,Pvs	nectin cell adhesion molecule 2
Neil1	NM_028347.2	2810450N13RIK,RIKEN cDNA 2810450N13 gene	nei endonuclease VIII-like 1 (E. coli)
Nf1	NM_010897.2	AW494271,dark skin 9,Dsk9,expressed sequence AW494271,Martin Hrabe de Angelis dark skin 9,MGD-MRK-12821,MGD-MRK-12822,MGI:2144546,MGI:2450693,Mhdadsk9,neurofibromatosis	neurofibromin 1
Nfam1	NM_028728.2	1,neurofibromin,NF-1	Nfat activating molecule with ITAM motif 1
Nfatc2	NM_001136073.2	4921501M2DRIK,RIKEN cDNA 4921501M20 gene	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2
Nfil3	NM_017373.3	A1607462,expressed sequence A1607462,MGD-MRK-12824,MGD-MRK-19300,MGI:2139019,NFAT1,NFAT1-D,Nfatp,NFATp,nuclear factor of activated T-cell phosphoprotein	nuclear factor, interleukin 3, regulated
Nfkb1	NM_008689.2	AV225605,E4BP4,expressed sequence AV225605,MGD-MRK-39494,MGI:2145396	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105
Nfkb2	NM_019408.3	MGD-MRK-12829,NF-kappaB,NF-kappaB1,NF-kappaB p50,nuclear factor kappaB p50,p50,p50/p105,p50 subunit of NF kappaB	nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100
Nfkbia	NM_010907.2	NF-kappaB2,p52	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha
Nfkbie	NM_008690.3	A1462015,expressed sequence A1462015,IkappaBalpha,I-kappaBalpha,(Kappa)Balpha,MGD-MRK-12830,MGD-MRK-28032,MGI:2144835,Nfkb1,nuclear factor of kappa light chain gene enhancer in B-cells inhibitor	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, epsilon
Ngfr	NM_033217.3	LNGFR,MGD-MRK-12842,p75,p75 neurotrophin receptor,p75NGFR,p75NTR,Tnfrsf16	nerve growth factor receptor (TNFR superfamily, member 16)
Nid2	NM_008695.2	AW547149,entactin 2,entactin-2,expressed sequence AW547149,MGI:2145830	nidogen 2
Nkg7	NM_024253.4	250004F03RIK,MGI:1919560,RIKEN cDNA 250004F03 gene	natural killer cell group 7 sequence
Nlrp5	NM_001033207.3	A1451557,AK220210,cDNA sequence AK220210,expressed sequence A1451557,MGI:2142553	NLR family, CARD domain containing 5
Nlrp3	NM_145827.3	C1as1,cold autoinflammatory syndrome 1 homolog (human),cryopyrin,Mmi1g1,NALP3,Pyipa1	NLR family, pyrin domain containing 3
Nod2	NM_145857.2	Card15,caspase recruitment domain family, member 15,F830032C23RIK,MGI:2443828,Nlr2,RIKEN cDNA F830032C23 gene	nucleotide-binding oligomerization domain containing 2
Nos2	NM_010927.3	iNOS,MGD-MRK-12910,MGD-MRK-12913,nitric oxide synthase-2 (brain),Nos-2,Nos2a,NOS-II	nitric oxide synthase 2, inducible
Notch1	NM_008714.3	993011A19RIK,lin-12,MGD-MRK-12915,MGD-MRK-18791,MGI:1915375,Mis6,Motch A,N1,RIKEN cDNA 993011A19 gene,Tan1,translocation-associated Notch	notch 1
Notch2	NM_010928.1	A1853703,expressed sequence A1853703,MGD-MRK-12916,MGI:2139830,Motch B,N2	notch 2
Nras	NM_010937.2	AV095280,expressed sequence AV095280,MGD-MRK-12932,MGI:2139934,N-ras 2210401F01RIK,5' nucleotidase,A1447961,CD73,ecto-5' nucleotidase,expressed sequence A1447961,MGD-MRK-16568,MGI:1921492,MGI:2143050,Nt5,RIKEN cDNA 2210401F01 gene	neuroblastoma ras oncogene
Nt5e	NM_011851.4	2210401F01RIK,5' nucleotidase,A1447961,CD73,ecto-5' nucleotidase,expressed sequence A1447961,MGD-MRK-16568,MGI:1921492,MGI:2143050,Nt5,RIKEN cDNA 2210401F01 gene	5' nucleotidase, ecto
Oas1a	NM_145211.2	L3	2'-5' oligoadenylate synthetase 1A
Oas2	NM_145227.3	2'-5' oligoadenylate synthetase-like 11,Oas11	2'-5' oligoadenylate synthetase 2
Oas3	NM_145226.2	2'-5' oligoadenylate synthetase-like 10,Oas10	2'-5' oligoadenylate synthetase 3
Oas1	NM_145209.3	7530414C13RIK,MGI:2443464,RIKEN cDNA 7530414C13 gene	2'-5' oligoadenylate synthetase-like 1
Olfml2b	NM_177068.4	1110018N05RIK,4832415H08RIK,A1467542,expressed sequence A1467542,MGI:1915832,MGI:2138272,photomedin-2,RIKEN cDNA 1110018N05 gene,RIKEN cDNA 4832415H08 gene	olfactomedin-like 2B
Olr1	NM_001301094.1	LOX-1,Scare1,SR-EI	oxidized low density lipoprotein (lectin-like) receptor 1
Otoa	NM_139310.1	2010001L06RIK,Gpr86,G protein-coupled receptor 86,P2Y13,RIKEN cDNA 2010001L06 gene,SP174	otoacnarin
P2ry13	NM_028808.3	AL022634,expressed sequence AL022634,MGD-MRK-13113,MGI:2143707,P4ha,prolyl 4-hydroxylase, alpha polypeptide	purinergic receptor P2Y, G-protein coupled 13
P4ha1	NM_011030.1	AA407196,C76437,expressed sequence AA407196,expressed sequence C76437,MGI:2143965,MGI:2144619,P4hl,prolyl 4-hydroxylase-like	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha II polypeptide
P4ha2	NM_001136076.2	4631423C22RIK,MGI:1913938,PALML,RIKEN cDNA 4631423C22 gene	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha II polypeptide
Palmd	NM_023245.3	AA409132,AA536654,EST AA536654,expressed sequence AA409132,MGI:1889366,Zc3hdc1,zinc finger CCCH type domain containing 1	palmdelphin
Parp12	NM_172893.3	ADP-ribosyltransferase (NAD+); poly (ADP-ribose) polymerase)-like 1,Adprtl1,C030027K23RIK,E230037B21RIK,gene model 743,(NCBI),Gm743,MGI:1924669,p193,PHSP,RIKEN cDNA C030027K23 gene,RIKEN cDNA E230037B21 gene,VAULT3,VPARP	poly (ADP-ribose) polymerase family, member 12
Parp4	NM_001145978.2	AW214463,BC003281,cDNA sequence BC003281,expressed sequence AW214463,MGI:2146631	poly (ADP-ribose) polymerase family, member 4
Parp9	NM_030253.2	AW214463,MGI:2146631	poly (ADP-ribose) polymerase family, member 9
Pcdhb11	NM_053136.3	Pcdhb5E,PcdhbK	protocadherin beta 11
Pck2	NM_028994.2	1810010014RIK,9130022B02RIK,MGI:1916307,MGI:1921801,RIKEN cDNA 1810010014 gene,RIKEN cDNA 9130022B02 gene	phosphoenolpyruvate carboxykinase 2 (mitochondrial)
Pcx	NM_008797.3	MGD-MRK-13166,MGD-MRK-13201,Pc	pyruvate carboxylase
Pdcd1	NM_008798.1	MGD-MRK-13206,MGD-MRK-29032,PD-1,Pdc1,programmed cell death	programmed cell death 1
Pdcd1lg2	NM_021396.2	B7-DC,Btdc,F730015O22RIK,MGI:2442044,PD-L2,RIKEN cDNA F730015O22 gene	programmed cell death 1 ligand 2
Pdgra	NM_006504659.3	MGD-MRK-13211	platelet derived growth factor, alpha
Pdgrb	NM_011057.3	MGD-MRK-13212,MGD-MRK-14423,PDGF-B,simian sarcoma oncogene,Sis	platelet derived growth factor, B polypeptide
Pdgrfb	NM_001146268.1	A1528809,CD140b,expressed sequence A1528809,MGD-MRK-13214,MGD-MRK-13217,MGI:2147240,Pdgrf,platelet derived growth factor receptor	platelet derived growth factor receptor, beta polypeptide
Pdk1	NM_172665.5	D530020C15RIK,RIKEN cDNA D530020C15 gene	pyruvate dehydrogenase kinase, isoenzyme 1
Pdk1ip1	NM_026018.3	0610007F13RIK,2700030M23RIK,AU046042,expressed sequence AU046042,Map17,MGI:1918913,MGI:2140501,RIKEN cDNA 0610007F13 gene,RIKEN cDNA 2700030M23 gene	PDZK1 interacting protein 1
Pecam1	NM_008816.2	C85791,Cd31,Cd31 antigen,expressed sequence C85791,MGD-MRK-13226,MGD-MRK-1848,MGI:2144682,PECAM-1	platelet/endothelial cell adhesion molecule 1
Pf4	NM_019932.4	chemokine (C-X-C motif) ligand 4,Cxcl4,Scyb4	platelet factor 4
Pfkfb3	NM_133232.2	E330010H22RIK,MGI:2442800,RIKEN cDNA E330010H22 gene,uPKF-2	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3
Pfkf	NM_001163487.1	A1131669,expressed sequence A1131669,MGD-MRK-13244,MGD-MRK-13245,MGD-MRK-13247,MGI:2145952,MGI:97546,Pfk4,Pfk-4,PFK-A,PFK-M,PFk,phosphofructokinase 4,phosphofructokinase, polypeptide X	phosphofructokinase, muscle
Pgpep1	NM_023217.4	2810003H13RIK,Pcp,PGP-I,RIKEN cDNA 2810003H13 gene	pyroglutamyl-peptidase I
Pias4	NM_021501.4	PIASy	protein inhibitor of activated STAT 4
Pik3ca	NM_008839.2	6330412C24RIK,caPI3K,MGI:1917992,p110alpha,RIKEN cDNA 6330412C24 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
Pik3cg	NM_001146200.1	5830428L06Rik,MGI:1923289,p110gamma,Pi3Kgamma,Pi(3)Kgamma,Pi3K-gam ma-,RIKEN cDNA 5830428L06 gene	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
Pik3r1	NM_001077495.1	AA414921,expressed sequence AA414921,MGD-MRK- 13305,MGI:2145159,p50alpha,p55alpha,PI3K	phosphoinositide-3-kinase regulatory subunit 1
Pik3r2	NM_008841.2	p85beta AV230647,expressed sequence AV230647,F73003815Rik,Foap2,MGI:2144465,p101,RIKEN cDNA F73003815 gene	phosphoinositide-3-kinase regulatory subunit 2
Pik3r5	NM_177320.2	AV230647,F73003815Rik,Foap2,MGI:2144465,p101,RIKEN cDNA F73003815 gene	phosphoinositide-3-kinase regulatory subunit 5
Pirb	NM_011095.2	glycoprotein 91,Gp91,leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3,Lilrb3,paired-Ig-like receptor B	paired Ig-like receptor B
Pkm	NM_001253883.1	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 plakophilin 3
Pkp3	NM_019762.2	2310056L12Rik,MGI:1917432,RIKEN cDNA 2310056L12 gene	plakophilin 3
Pla1a	NM_134102.4	AA986889,expressed sequence AA986889,MGI:2146373,Ps-pla1	phospholipase A1 member A
Pla2g2a	NM_001082531.1	EF,Enhancing factor,MGD-MRK-12352,MGD-MRK-26080,MGI:97049,modifier of Min1,Mom1	phospholipase A2, group IIA (platelets, synovial fluid)
Plod2	NM_001142916.1	D530025C14Rik,LH2,lysyl hydroxylase 2,MGI:1925825,Plod-2,RIKEN cDNA D530025C14 gene	procollagen lysine, 2-oxoglutarate 5-dioxygenase 2
Pms2	NM_008886.2	AW555130,DNA mismatch repair,expressed sequence AW555130,MGD-MRK- 25613,MGI:2141233,mismatch repair MGD-MRK-32349,N23K,neuropeptide nociceptin	PMS1 homolog2, mismatch repair system component
Pnoc	NM_001205075.1	1,N/OFQ,Npnc1,OFQ/N,proorphanin	prepronociceptin
Pold1	NM_011131.3	125KDa,MGD-MRK-13579	polymerase (DNA directed), delta 1, catalytic subunit
Pparg	NM_011146.3	MGD-MRK-13589,Nr1c3,PPARgamma,PPAR-gamma,Ppar-gamma2,PPARgamma2	peroxisome proliferator activated receptor gamma
Ppargclb	NM_133249.2	4631412G21Rik,PGC-1beta,ERRL1,RIKEN cDNA 4631412G21 gene	peroxisome proliferative activated receptor, gamma, coactivator 1 beta
Ppl	NM_008909.2	AW553870,expressed sequence AW553870,MGI:2146664	periplakin
Prdm1	NM_007548.3	b2b1765Clo,Blimp1,Blimp-1,B lymphocyte induced maturation protein,MGD- MRK-16440,MGI:5446148,Mutant line 1765,PRDI-BF1 MGD-MRK-13251,MGD-MRK-13605,perforin,perforin 1,Pfn,Pfp,pore forming protein,Prf-1	PR domain containing 1, with ZNF domain perforin 1 (pore forming protein)
Prf1	NM_011073.2	2310008I11Rik,AMPKalpha2,MGI:1913766,RIKEN cDNA 2310008I11 gene	protein kinase, AMP-activated, alpha 2 catalytic subunit
Prkaa2	NM_178143.1	2310008I11Rik,AMPKalpha2,MGI:1913766,RIKEN cDNA 2310008I11 gene	protein kinase, AMP-activated, alpha 2 catalytic subunit
Prkacb	NM_011100.3	cAMP-dependent protein kinase C beta,MGD-MRK-13325,Prkcb	protein kinase, cAMP dependent, catalytic, beta
Prkca	NM_011101.3	A1875142,expressed sequence A1875142,MGD-MRK-13327,MGI:2144325,Prka	protein kinase C, alpha
Prkx	NM_016979.1	Pkare	protein kinase, X-linked
Prlr	NM_011169.5	A1987712,expressed sequence A1987712,MGD-MRK-13598,MGD-MRK- 13599,MGD-MRK-13614,MGD-MRK-13615,MGI:2146103,MGI:97764,Pr-1,Pr- 3,Prlr-rs1,prolactin receptor 1,prolactin receptor 3,prolactin receptor related sequence 1	prolactin receptor
Prom1	NM_001163577.1	4932416E19Rik,AC133,CD133,MGI:2444952,Prom,Prom-1,RIKEN cDNA 4932416E19 gene	prominin 1
Prr5	NM_146061.4	Arhgap8,AU043908,C030017C09Rik,C78947,expressed sequence AU043908,expressed sequence C78947,MGI:2146155,MGI:2146287,Protor-1,Rho GTPase activating protein 8,RIKEN cDNA C030017C09 gene	proline rich 5 (renal)
Psmb10	NM_013640.3	Mecl1,Mecl-1	proteasome (prosome, macropain) subunit, beta type 10
Psmb5	NM_011186.1	Mecl1,Mecl-1	proteasome (prosome, macropain) subunit, beta type 5
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)
Ptcd2	NM_026873.2	1190005P08Rik,RIKEN cDNA 1190005P08 gene 2310035O07Rik,A130070J02Rik,AI463227,B430203M17Rik,expressed sequence AI463227,MGD-MRK- 39582,MGI:1917411,MGI:2147557,MGI:2443558,MMAC1,RIKEN cDNA 2310035O07 gene,RIKEN cDNA A130070J02 gene,RIKEN cDNA B430203M17 gene,TEP1	pentatricopeptide repeat domain 2
Pten	NM_008960.2	39582,MGI:1917411,MGI:2147557,MGI:2443558,MMAC1,RIKEN cDNA 2310035O07 gene,RIKEN cDNA A130070J02 gene,RIKEN cDNA B430203M17 gene,TEP1	phosphatase and tensin homolog
Ptger4	NM_001136079.1	EP4,MGD-MRK-25639,prostaglandin E receptor EP4 subtype,Ptgerp4 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_011198.4	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,Syp	prostaglandin-endoperoxide synthase 2
Ptpn11	NM_011202.3	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	protein tyrosine phosphatase, non-receptor type 11
Ptprc	NM_00111316.2	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,Tag4,tumor-associated antigen 1	protein tyrosine phosphatase, receptor type, C
Pvr	NM_027514.2	3830421F03 gene,Taa1,Tag4,tumor-associated antigen 1	poliovirus receptor
Pvrig	XM_011240963.2	Gm36869,predicted gene, 36869	poliovirus receptor related immunoglobulin domain containing
Rad50	NM_009012.2	MGD-MRK-38337,MGI:894309,Mrell,Rad50I,RAD50-like	RAD50 double strand break repair protein
Rad51	NM_011234.4	AV304093,expressed sequence AV304093,MGD-MRK- 13824,MGI:2139265,Rad51a,RAD51A homolog (S. cerevisiae),Reca,recombination and repair of radiation damage, RAD51 homolog	RAD51 recombinase
Rad51c	NM_053269.3	Rad51l2	RAD51 paralogue C
Rasaf1	NM_013832.4	MRASAL	RAS protein activator like 1 (GAP1 like)
Rasgrf1	NM_011245.2	A1844718,CD25,CD25Mm,expressed sequence A1844718,Grf1,Grfbeta,guanine nucleotide releasing factor 1,MGD-MRK-16479,MGI:1347052,MGI:2143138	RAS protein-specific guanine nucleotide-releasing factor 1
Rb1	NM_009029.2	MGD-MRK-13784,MGD-MRK-13785,pRb,Rb,Rb-1,retinoblastoma 1	Rb transcriptional corepressor 1
Rb2	NM_011250.4	MGD-MRK-32125,p130,Rb2,retinoblastoma-like 2	Rb transcriptional corepressor like 2
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	avian reticuloendotheliosis viral (v-rel) oncogene related B
Reln	NM_011261.2	MGD-MRK-13895,MGD-MRK-23859,reeler,rl D19352,expressed sequence D19352,MGD-MRK-13833,MGD-MRK-13834,MGD- MRK-13836,MGD-MRK-13838,MGD-MRK-13917,MGD-MRK- 13951,MGI:2138723,Ren,Ren-1,Ren1c,Ren1d,Ren-A,renin,renin 1,renin A,Rn- 1,Rnr	reelin
Ren1	NM_031192.3	D19352,expressed sequence D19352,MGD-MRK-13833,MGD-MRK-13834,MGD- MRK-13836,MGD-MRK-13838,MGD-MRK-13917,MGD-MRK- 13951,MGI:2138723,Ren,Ren-1,Ren1c,Ren1d,Ren-A,renin,renin 1,renin A,Rn- 1,Rnr	renin 1 structural
Rictor	NM_030168.3	4921505C17Rik,6030405M08Rik,AW492497,D530039E11Rik,expressed sequence AW492497,MGI:1924409,MGI:1925833,MGI:2146218,RIKEN cDNA 4921505C17 gene,RIKEN cDNA 6030405M08 gene,RIKEN cDNA D530039E11 gene	RPTOR independent companion of MTOR, complex 2
Ripk1	NM_009068.3	MGD-MRK-37251,receptor interacting protein,Rinp,Rip1 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 2610528K09Rik,AW107945,expressed sequence	receptor (TNFRSF)-interacting serine-threonine kinase 1
Ripk2	NM_138952.3	34205,MGI:106511,MGI:1917420,RICK,RIKEN cDNA 2210420D18 gene,RIP2 2610528K09Rik,AW107945,expressed sequence	receptor (TNFRSF)-interacting serine-threonine kinase 2
Ripk3	NM_019955.1	AW107945,MGI:1923812,MGI:2145796,RIKEN cDNA 2610528K09 gene,Rip3	receptor-interacting serine-threonine kinase 3
Rnlis	NM_001146342.2	6530404N21Rik,RIKEN cDNA 6530404N21 gene 1200012D01Rik,AI593217,expressed sequence AI593217,Magic roundabout,MGI:2143097,RIKEN cDNA 1200012D01 gene	renalase, FAD-dependent amine oxidase
Robo4	NM_028783.2	1110055K06Rik,MGD-MRK-36507,MGI:1916035,RIKEN cDNA 1110055K06 gene,Rock-I	roundabout guidance receptor 4
Rock1	NM_009071.2	1110055K06Rik,MGD-MRK-36507,MGI:1916035,RIKEN cDNA 1110055K06 gene,Rock-I	Rho-associated coiled-coil containing protein kinase 1

Ror2	NM_013846.3	neurotrophic tyrosine kinase, receptor related 2,Ntrkr2	receptor tyrosine kinase-like orphan receptor 2
Rorc	NM_011281.2	MGD-MRK-28153,RORgamma,Thor,thymus orphan receptor	RAR-related orphan receptor gamma
Rpl23	NM_022891.3	2810009A01Rik,MGI:1915154,RIKEN cDNA 2810009A01 gene	ribosomal protein L23
Rpl7a	NM_013721.3	Surf-3,surfeit 3	ribosomal protein L7A
		261031815Rik,AA959758,AI256796,AI314060,expressed sequence AA959758,expressed sequence AI256796,expressed sequence AI314060,MGI:1919758,MGI:2144050,MGI:2144103,MGI:2144107,p70/85s6k,p7	
Rps6kb1	NM_001114334.1	06k6,p70S6k1,RIKEN cDNA 261031815 gene,S6K1	ribosomal protein S6 kinase, polypeptide 1
Rptor	NM_028898.2	4932417H02Rik,mKAA1303,Rap,raptor,RIKEN cDNA 4932417H02 gene	regulatory associated protein of MTOR, complex 1
Rrm2	NM_009104.2	AA407299,expressed sequence AA407299 MGD-MRK-14210,MGI:2145142,R2	ribonucleotide reductase M2
Rsad2	NM_021384.2	2510004L01Rik,cig5,MGI:1919695,RIKEN cDNA 2510004L01 gene,Vig1,viperin	radical S-adenosyl methionine domain containing 2
Runx3	NM_019732.2	AML2,cbfa3,core binding factor alpha 3,MGD-MRK-19575 6088Ag,AI323541,B8Ag,Caga,calgranulin A,CFAg,CP-10,expressed sequence AI323541,MGD-MRK-1725,MGI:2139672,MRP8,p8	runx related transcription factor 3
S100a8	NM_013650.2	6088Ag,AWS46964,BEE22,Cagb,calgranulin B,expressed sequence	S100 calcium binding protein A8 (calgranulin A)
S100a9	NM_009114.2	AW546964,GAGB,L1Ag,MGD-MRK-1726,MGI:2139998,MGI:88245,MRP14,p14	S100 calcium binding protein A9 (calgranulin B)
Samsn1	NM_023380.2	4930571B16Rik,Hacs1,RIKEN cDNA 4930571B16 gene	SAM domain, SH3 domain and nuclear localization signals, 1
Sbno2	NM_183426.1	BC019206,cDNA sequence BC019206,Sino,strawberry notch homolog (Drosophila)	strawberry notch 2
Sele	NM_011345.2	CD62E,Elam,endothelial adhesion molecule,E-selectin,MGD-MRK-14357,MGD-MRK-9356	selectin, endothelial cell
		Ai528707,CD62L,expressed sequence Ai528707,LECAM-1,Lnhr,L-selectin,Ly-22,Lyam1,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	XM_006496716.1	CD62p,granulocyte membrane protein,Gmp,MGD-MRK-10271,MGD-MRK-14360,P-selectin	selectin, lymphocyte
Selp	NM_011347.1	Aat2,Aat-2,alpha-1-antitrypsin 2,MGD-MRK-1012,MGD-MRK-1013,MGI:87857,P1I,serine protease inhibitor 1-1,Spi1-1	selectin, platelet
Serpina1a	NM_009243.4	1110036M19Rik,AI462524,AI646751,expressed sequence AI462524,expressed sequence AI646751,Maspin,MGD-MRK-39578,MGI:1915965,MGI:2138262,MGI:2138309,ovalbumin,RIKEN cDNA	serine (or cysteine) peptidase inhibitor, clade A, member 1A
Serpinh5	NM_009257.3	1110036M19 gene,serine protease inhibitor 7,Spi7 Cbp1,Cbp2,collagen binding protein 1,collagen binding protein 2,colligin,gp46,heat shock protein 47 kDa,Hsp47,I6,MGD-MRK-10956,MGD-MRK-1786,MGD-MRK-39501,MGI:109502,serine (or cysteine) proteinase inhibitor, clade H, member 2,Serpinh2	serine (or cysteine) peptidase inhibitor, clade B, member 5
Serpinh1	NM_009825.2	2210415K03Rik,AW011917,AW107218,AW742929,expressed sequence AW011917,expressed sequence AW107218,expressed sequence AW742929,MGI:1919612,MGI:2142743,MGI:2142757,MGI:2142814,RIKEN cDNA	serine (or cysteine) peptidase inhibitor, clade H, member 1
Sfrp1	NM_013834.2	2210415K03 gene,sFRP-1	secreted frizzled-related protein 1
Sfrp4	NM_016687.3	2810002O05Rik,A930015P12Rik,MGD-MRK-9693,MGI:1917369,MGI:2443662,RIKEN cDNA 2810002O05 gene,RIKEN cDNA A930015P12 gene	secreted frizzled-related protein 4
Sfxn1	NM_027324.5	9693,MGI:1917369,MGI:2443662,RIKEN cDNA 2810002O05 gene,RIKEN cDNA A930015P12 gene	sideroflexin 1
Sgk1	NM_001161849.2	serum/glucocorticoid regulated kinase,Sgk	serum/glucocorticoid regulated kinase 1
Sh2d1a	NR_132588.1	Duncan disease homolog,SAP	SH2 domain containing 1A
Shc2	NM_001024539.1	MGD-MRK-33870,ShcB,Sli	SHC (Src homology 2 domain containing) transforming protein 2
Siglec1	NM_011426.3	CD169,MGD-MRK-16453,sialoadhesin,Siglec-1,Sn	sialic acid binding Ig-like lectin 1, sialoadhesin
Siglecf	NM_145581.1	mSiglec-F,sialic acid binding Ig-like lectin 5,Siglec5 AI835480,Bit,brain immunological-like with tyrosine-based motifs,CD172a,expressed sequence AI835480,MGD-MRK-36527,MGD-MRK-37607,MGI:107947,MGI:2139057,P84,protein tyrosine phosphatase, non-receptor type substrate 1,Ptpps1,SHPS-1,SIRP	sialic acid binding Ig-like lectin F
Sirpa	NM_007547.2	19A,19A24,4930560D03Rik,CS1,novel Ly9,RIKEN cDNA 4930560D03 gene	signal-regulatory protein alpha
Slamf7	NM_144539.5	Bcg,BCG resistance,host resistance locus Bcg/Ity/Lsh,immunity to S.typhimurium,Ity,Ity1,Leishmaniasis resistance,Lsh,MGD-MRK-11510,MGD-MRK-11511,MGD-MRK-11891,MGD-MRK-1520,MGD-MRK-16714,MGD-MRK-24163,MGI:103283,natural resistance-associated macrophage protein,natural resistance-associated macrophage protein 1,Nramp,Nramp1	SLAM family member 7
Slc11a1	NM_013612.2	AL022710,expressed sequence AL022710,MCT1,MGD-MRK-33695,MGI:2139849	solute carrier family 11 (proton-coupled divalent metal ion transporters), member 1
Slc16a1	NM_009196.4	ASCT2,MGD-MRK-32346,Slc1a7,solute carrier family 1, member 7	solute carrier family 16 (monocarboxylic acid transporters), member 1
Slc1a5	NM_009201.2	glucose transporter 1, erythrocyte,Glut1,Glut-1,MGD-MRK-10155,MGD-MRK-10159	solute carrier family 1 (neutral amino acid transporter), member 5
Slc2a1	NM_011400.3	D0H165474E,DNA segment, human S474E,LAT1,TA1	solute carrier family 2 (facilitated glucose transporter), member 1
Slc7a5	NM_011404.3	1110051M15Rik,AI451355,expressed sequence AI451355,MadH5,MGI:1923577,MGI:2145246,MusMLP,RIKEN cDNA 1110051M15 gene,Smad 5	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5
Smad5	NM_008541.2	1700056O10Rik,4921514B13Rik,4921525H11Rik,AI462175,expressed sequence AI462175,MGI:1918153,MGI:1918155,MGI:1920661,RIKEN cDNA 1700056O10 gene,RIKEN cDNA 4921514B13 gene,RIKEN cDNA 4921525H11 gene	SMAD family member 5
Smap1	NM_028534.3	AI194338,expressed sequence AI194338,MGD-MRK-14460,MGI:2138858,Sna,Sna1,Snail,Snail1,snail homolog, (Drosophila)	small ArfGAP 1
Snail	NM_011427.2	alpha-Syn,alphaSYN,alpha-synuclein	snail family zinc finger 1
Snca	NM_009221.2	Cish1,Cish7,cytokine inducible SH2-containing protein 1,JAB,JAK2-binding protein,JAK-binding protein,MGI:1276585,SOCS-1,SSI-1,STAT-induced STAT inhibitor 1	synuclein, alpha
Socs1	NM_009896.2	Dom,dominant megacolon,gray tremor,gt,MGD-MRK-10325,MGD-MRK-14497,MGD-MRK-38228,MGD-MRK-8879,MGI:109184,MGI:94914,MGI:95866,Sox21,SRY-box containing gene 21	suppressor of cytokine signaling 1
Sox10	XM_128139.6	1110038H03Rik,6230403H02Rik,AI836553,end1,expressed sequence AI836553,MGD-MRK-14498,MGI:1913439,MGI:1915029,MGI:2144888,RIKEN cDNA 1110038H03 gene,RIKEN cDNA 6230403H02 gene	SRY (sex determining region Y)-box 10
Sox11	NM_009234.6	lcc,light coat and circling,MGD-MRK-14493,MGD-MRK-14503,MGI:1891165,MGI:2181707,Sox-2,yellow submarine,ysb	SRY (sex determining region Y)-box 11
Sox2	NM_011443.3	Spi-B	SRY (sex determining region Y)-box 2
SpiB	NM_019866.1	2ar,44kDa bone phosphoprotein,AA960535,activation protein lymphocyte 1,AI790405,Apl-1,BNSP,bone sialoprotein 1,early T lymphocyte activation,Eta,ETA 1,expressed sequence AA960535,expressed sequence AI790405,MGD-MRK-13036,MGD-MRK-13037,MGD-MRK-1359,MGD-MRK-13878,MGD-MRK-14544,MGD-MRK-14545,MGD-MRK-9656,MGI:2140792,MGI:2140963,minopontin,OP,Opn,Opnl,osteopontin,osteopontin-like protein,Ric,rickettsia tsutsugamushi resistance,Spp-1	Spi-B transcription factor (Spi-1/PU.1 related)
Spp1	NM_009263.3	A030006O18Rik,MGI:2444550,RIKEN cDNA A030006O18 gene,sprouty4	secreted phosphoprotein 1
Spry4	NM_011898.2	ADD-1,bHLHd1,MGD-MRK-36180,SREBP1,SREBP-1,SREBP-1a,SREBP1c,SREBP-1c 54kDa,54k subunit of signal recognition particle,signal recognition particle 54,Srp54	sprouty RTK signaling antagonist 4
Sreb1f	NM_011480.4	2010005J02Rik,AA408197,expressed sequence AA408197,MGD-MRK-23925,MGI:1923977,MGI:2138078,RIKEN cDNA 2010005J02 gene	sterol regulatory element binding transcription factor 1
Srp54a	NM_011899.4	1600010G07Rik,AW496480,expressed sequence AW496480,MGD-MRK-23901,MGI:1919271,MGI:2143845,RIKEN cDNA 1600010G07 gene	signal recognition particle 54A
Stat1	NM_009283.4	1110034C02Rik,Apf,AW109958,expressed sequence AW109958,MGD-MRK-23900,MGI:1915983,MGI:2144497,RIKEN cDNA 1110034C02 gene	signal transducer and activator of transcription 1
Stat2	NM_019963.1	MGD-MRK-23924	signal transducer and activator of transcription 2
Stat3	NM_011486.4		signal transducer and activator of transcription 3
Stat4	NM_011487.5		signal transducer and activator of transcription 4

Stc1	NM_009285.3	MGD-MRK-38175	stanniocalcin 1
Syk	NM_001198977.1	MGD-MRK-16292,Sykb 4933439M23RIK,AW539625,expressed sequence AW539625,MGI:1918534,MGI:2139366,mTAFII140,RIKEN cDNA 4933439M23	spleen tyrosine kinase
Taf3	NM_027748.3	gene	TATA-box binding protein associated factor 3
Tap1	NM_001161730.1	Acbcb2,ATP-binding cassette, sub-family B (MDR/TAP), member 2,Ham1,Ham-1,histocompatibility antigen modifier 1,MGD-MRK-10612,MGD-MRK-10614,MGD-MRK-14712,MGD-MRK-14714,MTP1,PSF-1,RING4,TAP,Tap-1,transporter 1, ABC (ATP binding cassette)	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
Tap2	NM_011530.3	Acbcb3,AI462429,ATP-binding cassette, sub-family B (MDR/TAP), member 3,expressed sequence AI462429,Ham2,Ham-2,HAM2,histocompatibility antigen modifier 2,MGD-MRK-10613,MGD-MRK-10615,MGD-MRK-14713,MGD-MRK-14715,MGI:2146874,MGI:3584394,MTP2,PSF2,Tap-2,transporter 2, ABC (ATP binding cassette)	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
Tapbp	NM_009318.2	D17Wsu91e,DNA segment, Chr 17, Wayne State University 91, expressed,MGD-MRK-33974,MGI:106282,tapasin,TPN	TAP binding protein
Tapbpl	NM_145391.2	BC017613,cDNA sequence BC017613,MGC:27679,TAPBPL-R	TAP binding protein-like
Tbx21	NM_019507.2	Tbet,T-bet,Tblym,TBT1	T-box 21
Tbxas1	NM_011539.3	CYP5,CYP5A1,MGD-MRK-14734,TEXAS,TEX	thromboxane A synthase 1, platelet
Tcf3	NM_001164147.1	A1,AA40840,ALF2,AW209082,bHLHb21,E12,E2A,E47,expressed sequence AA40840,expressed sequence AW209082,MGD-MRK-14762,MGI:2143467,MGI:2143825,Pan1,Pan2,Tcfe2a,transcription factor E2a	transcription factor 3
Tcl1	NM_009337.3	AA407491,chick yellow,cky,expressed sequence	T cell lymphoma breakpoint 1
Tdo2	NM_019911.2	AA407491,MGI:2139552,MGI:3617202,TDO,TO MGD-MRK-15063,MGD-MRK-15064,MGD-MRK-15067,Tgfb,Tgfb-1,TGFBeta1,TGF-beta1,TGF-beta 1	tryptophan 2,3-dioxygenase
Tgfb1	NM_011577.1	BB105277,expressed sequence BB105277,MGD-MRK-15065,MGD-MRK-15068,MGI:2138633,Tgfb-2,Tgf-beta2	transforming growth factor, beta 1
Tgfb2	NM_009367.4	MGD-MRK-15066,MGD-MRK-15069,Tgfb-3	transforming growth factor, beta 2
Tgfb3	NM_009368.2	Alk-5,ALK5,AU017191,expressed sequence AU017191,MGD-MRK-15070,MGI:2140434,TbetaR-I,TbetaR-I	transforming growth factor, beta 3
Tgfb1	NM_009370.2	1110020H15RIK,AU042018,expressed sequence AU042018,MGD-MRK-15071,MGI:1923554,MGI:2143233,RIKEN cDNA 1110020H15	transforming growth factor, beta receptor I
Tgfb2	NM_009371.3	gene,TbetaRII,TbetaR-II,TBR-II AI385582,CD141,expressed sequence AI385582,MGD-MRK-15081,MGI:2138918,TM	transforming growth factor, beta receptor II
Thbd	NM_009378.3	15081,MGI:2138918,TM	thrombospondin 1
Thbs1	NM_011580.4	MGD-MRK-15083,MGD-MRK-15086,tbsp1,Thbs-1,TSP1,TSP-1 CD90,MGD-MRK-15100,MGD-MRK-15102,T25,theta,Thy-1,Thy1.1,Thy1.2,Thy1.2,Thy1.2	thrombospondin 1
Thy1	NM_009382.3	AW046014,AW547018,expressed sequence AW046014,expressed sequence AW547018,MGI:2147076,TICAM-1,Trif	thymus cell antigen 1, theta
Ticam1	NM_174989.4	D430008P04RIK,MGD-MRK-16703,MGI:2443090,RIKEN cDNA D430008P04	toll-like receptor adaptor molecule 1
Tie1	NM_011587.2	gene,TIE,tie-1 ENSMUSG0000001552,predicted gene, ENSMUSG0000001552,V-set and transmembrane domain containing 3,Vstm3	tyrosine kinase with immunoglobulin-like and EGF-like domains 1
Tigit	NM_001146325.1		T cell immunoreceptor with Ig and ITIM domains
Tlr1	NM_030682.1	Ly105	toll-like receptor 1
Tlr2	NM_011905.2	AI957183,expressed sequence AI957183,MGI:2142652	toll-like receptor 2
Tlr3	NM_126166.2	lipopolysaccharide response,Lps,MGD-MRK-11879,MGD-MRK-26042,RasI2-8,RAS-like, family 2, locus 8	toll-like receptor 3
Tlr4	NM_021297.2		toll-like receptor 4
Tlr5	NM_016928.2		toll-like receptor 5
Tlr7	NM_133211.4		toll-like receptor 7
Tlr8	NM_133212.2		toll-like receptor 8
Tlr9	NM_031178.2		toll-like receptor 9
Tmem140	NM_197986.2	1110007F12RIK,RIKEN cDNA 1110007F12 gene	transmembrane protein 140
Tmem173	NM_028261.1	2610307008RIK,ERIS,MPYS,RIKEN cDNA 2610307008 gene,Sting	transmembrane protein 173
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_001166402.1	A20,Tnfp6,tumor necrosis factor induced protein 3,zinc finger protein A20	tumor necrosis factor, alpha-induced protein 3
Tnfaip6	NM_009398.2	Tnfp6,Tsg6,TSG-6,tumor necrosis factor induced protein 6	tumor necrosis factor alpha induced protein 6
Tnfrsf10b	NM_020275.3	DRS,KILLER,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 MGD-MRK-39586,OCIF,Oppg,OPG,osteoclastogenesis inhibitory factor,osteoprotegerin,TR1	tumor necrosis factor receptor superfamily, member 11a, NFKB activator
Tnfrsf11b	NM_008764.3		tumor necrosis factor receptor superfamily, member 11b (osteoprotegerin)
Tnfrsf14	NM_178931.2	Atar,iHveA,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
Tnfrsf18	NM_009400.2	Gitr,glucocorticoid-induced tumor necrosis factor related gene CD120a,MGD-MRK-15155,MGD-MRK-15156,MGI:98781,p55,p55-R,TNF-alphaR1,TNF-alpha-R1,TNFalpha-R1,TNFAR,Tnfr-1,Tnfr-1,Tnfr-2,TNFR5,TNFR60,TNF receptor alpha chain,TNFR1,TNF-R-I,TNFRp55,tumor necrosis factor receptor 1,tumor necrosis factor receptor 2	tumor necrosis factor receptor superfamily, member 18
Tnfrsf1a	NM_011609.2	CD120b,MGD-MRK-15154,MGD-MRK-15157,MGI:98782,p75,p75 TNFR,TNF-alphaR2,TNFalpha-R2,TNFR,Tnfr-1,Tnfr-2,TNFR2,TNFR-R75,TNFR80,TNFR1,TNFR-II,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,Tnfr-2,TNFR2,TNFR-R75,TNFR80,TNFR1,TNFR-II,tumor necrosis factor receptor 1,tumor necrosis factor receptor 2	tumor necrosis factor receptor superfamily, member 1b
Tnfrsf25	NM_033042.3	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 25
Tnfrsf4	NM_011659.2	CD30,CD30,CD30 antigen,MGD-MRK-16705	tumor necrosis factor receptor superfamily, member 4
Tnfrsf8	NM_009401.2	4-1BB,A93004011RIK,AA408498,AI325004,Cd137,CD antigen 137,CDw137,expressed sequence AA408498,expressed sequence AI325004,IILy63,lymphocyte antigen 63,MGI:1925690,MGI:2140130,MGI:2140239,RIKEN cDNA A93004011 gene A330042I2RIK,AI448571,APO-2L,expressed sequence AI448571,MGD-MRK-35883,MGI:2139709,RIKEN cDNA A330042I2I gene,TNF-related apoptosis inducing ligand,Trail	tumor necrosis factor receptor superfamily, member 8
Tnfrsf9	NM_001077508.1	A330042I2RIK,AI448571,APO-2L,expressed sequence AI448571,MGD-MRK-35883,MGI:2139709,RIKEN cDNA A330042I2I gene,TNF-related apoptosis inducing ligand,Trail	tumor necrosis factor (ligand) superfamily, member 9
Tnfsf10	NM_009425.2	CD137,CD137,CD137 antigen,CD137,CD antigen 137 ligand,expressed sequence AI488817,Ly63,lymphocyte antigen 63 ligand,MGI:2146938 4930554K12RIK,AI662855,C86528,D130072021RIK,expressed sequence AI662855,expressed sequence C86528,MGI:1922501,MGI:2142612,MGI:2142876,mTNKS1,RIKEN cDNA 4930554K12 gene,RIKEN cDNA D130072021 gene,TANK1,tankyrase 1 AI255506,expressed sequence AI255506,MGD-MRK-15179,MGD-MRK-15180,MGI:2141384,Tpi-1	tumor necrosis factor (ligand) superfamily, member 10
Tnfsf12	NM_011614.3	CD137,CD137,CD137 antigen,CD137,CD antigen 137 ligand,expressed sequence AI488817,Ly63,lymphocyte antigen 63 ligand,MGI:2146938 4930554K12RIK,AI662855,C86528,D130072021RIK,expressed sequence AI662855,expressed sequence C86528,MGI:1922501,MGI:2142612,MGI:2142876,mTNKS1,RIKEN cDNA 4930554K12 gene,RIKEN cDNA D130072021 gene,TANK1,tankyrase 1 AI255506,expressed sequence AI255506,MGD-MRK-15179,MGD-MRK-15180,MGI:2141384,Tpi-1	tumor necrosis factor (ligand) superfamily, member 12
Tnfsf13	NM_023517.2	BAFF,BLy5,D8Etd387e,DNA segment, Chr 8, ERATO Doi 387, expressed,MGI:1196237,TALL-1,zTNF4	tumor necrosis factor (ligand) superfamily, member 13
Tnfsf13b	NM_033622.1		tumor necrosis factor (ligand) superfamily, member 13b
Tnfsf18	NM_183391.3	Gitrl,GITR ligand	tumor necrosis factor (ligand) superfamily, member 18
Tnfsf4	NM_009452.2	Ath1,Ath-1,atherosclerosis 1,CD134L,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,Txgp1I	tumor necrosis factor (ligand) superfamily, member 4
Tnfsf8	NM_009403.3	CD153,CD30 antigen ligand,Cd30,Cd30L,CD30LG,MGD-MRK-1847	tumor necrosis factor (ligand) superfamily, member 8
Tnfsf9	NM_009404.3	4-1BB,4-1BB-L,4-1BB ligand,AI848817,Cd137,CD antigen 137 ligand,expressed sequence AI848817,Ly63,lymphocyte antigen 63 ligand,MGI:2146938 4930554K12RIK,AI662855,C86528,D130072021RIK,expressed sequence AI662855,expressed sequence C86528,MGI:1922501,MGI:2142612,MGI:2142876,mTNKS1,RIKEN cDNA 4930554K12 gene,RIKEN cDNA D130072021 gene,TANK1,tankyrase 1 AI255506,expressed sequence AI255506,MGD-MRK-15179,MGD-MRK-15180,MGI:2141384,Tpi-1	tumor necrosis factor (ligand) superfamily, member 9
Tnks	NM_175091.3	4930554K12 gene,RIKEN cDNA D130072021 gene,TANK1,tankyrase 1 AI255506,expressed sequence AI255506,MGD-MRK-15179,MGD-MRK-15180,MGI:2141384,Tpi-1	tankyrase, TRFI-interacting ankyrin-related ADP-ribose polymerase
Tpi1	NM_009415.2	15180,MGI:2141384,Tpi-1	triosephosphate isomerase 1

Tpm1	NM_024427.4	AA986836,AI854628,alpha-TM,alpha tropomyosin,expressed sequence AA986836,expressed sequence AI854628,MGD-MRK-15202,MGD-MRK-15205,MGI:2142971,MGI:2143162,TM2,Tm3,Tpm-1	tropomyosin 1, alpha
Tpsab1	NM_031187.4	mast cell protease 7,Mcp-7,Mcpt7,MGD-MRK-12149,MGD-MRK-12157,MMCP-7	trypsin alpha/beta 1
Traf1	NM_009421.4	4732496E14RIK,MGD-MRK-18657,MGI:2443877,RIKEN cDNA 4732496E14 gene C030046M14RIK,RIKEN cDNA C030046M14 gene,T-cell receptor interacting molecule,Tcrim,Trim	TNF receptor-associated factor 1
Trat1	NM_198297.3		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_031254.2		triggering receptor expressed on myeloid cells 2
Trim21	NM_001082552.1	MGD-MRK-35115,Ro52,Sjogren syndrome antigen A1,Ssa1	tripartite motif-containing 21
Trp53	NM_011640.1	MGD-MRK-15247,MGI:3584375,MGI:3584378,MGI:3584379,p44,p53	transformation related protein 53
Tslp	NM_021367.1		thymic stromal lymphopoietin
Ttc30a1	NM_030188.3	4930506L13RIK,RIKEN cDNA 4930506L13 gene	tetratricopeptide repeat domain 30A1
Twf1	NM_008971.4	A6,actin monomer-binding protein,protein tyrosine kinase 9,Ptk9,twinfilin,Twinfilin-1	twinfilin actin binding protein 1
Twist1	NM_011658.2	AA960487,bHLHa38,charlie chaplin,expressed sequence AA960487,MGD-MRK-15305,MGI:1890569,MGI:2144752,MGI:3038444,M-Twist,Pde,pdt,Pluridigitte,polydactyly EMS,Ska10,Ska<m10lus>,skeletal/axial 10 bHLHa39,dermis expressed 1,Dermo1,MGD-MRK-27048	twist basic helix-loop-helix transcription factor 1
Twist2	NM_007855.2	2900072D10RIK,Ecgf1,endothelial cell growth factor 1 (platelet-derived),gliostatin,MGD-MRK-13213,MGI:97529,PDECGF,PD-ECGF,Pdgfc,platelet derived growth factor, endothelial cell,RIKEN cDNA	twist basic helix-loop-helix transcription factor 2
Tymp	NM_138302.1	2900072D10 gene	thymidine phosphorylase
Tyms	NM_021288.3	MGD-MRK-15313,TS	thymidylate synthase
Uba7	NM_023738.4	1300004C08RIK,MGI:1921403,RIKEN cDNA 1300004C08 gene,Ube11,ubiquitin activating enzyme E1-like,ubiquitin-activating enzyme E1-like 1110015A16RIK,D2Ert695E,DNA segment, Chr 2, ERATO Doi 695,	ubiquitin-like modifier activating enzyme 7
Ube2c	NM_026785.2	expressed,MGI:1277160,RIKEN cDNA 1110015A16 gene 2700084L22RIK,C80607,expressed sequence C80607,MGI:2138694,RIKEN cDNA 2700084L22 gene	ubiquitin-conjugating enzyme E2C
Ube2t	NM_001278115.1	2700084L22 gene	ubiquitin-conjugating enzyme E2T
Ublp1	NM_029975.2	A430108B07RIK,MULT1,RIKEN cDNA A430108B07 gene	UL16 binding protein 1
Vcam1	NM_011693.3	CD105,MGD-MRK-15384,MGD-MRK-15385,Vcam-1 5430420N07RIK,chondroitin sulfate proteoglycan 2,Cspg2,DPEAAE,hdf,heart defect,MGD-MRK-23722,MGI:1918683,MGI:894331,PG-M,RIKEN cDNA 5430420N07 gene	vascular cell adhesion molecule 1
Vcan	NM_001081249.1	5430420N07 gene	versican
Vegfa	NM_001025250.3	MGD-MRK-24046,vascular endothelial growth factor,Vegf,VEGF120,VEGF164,VEGF188,VEGF-A,VPF	vascular endothelial growth factor A
Vegfb	NM_011697.3	MGD-MRK-33890,vascular endothelial growth factor related protein,VEGF-B,Vrf AW228853,expressed sequence AW228853,MGD-MRK-38168,MGI:2142780,VEGF-C	vascular endothelial growth factor B
Vegfc	NM_009506.2	38168,MGI:2142780,VEGF-C	vascular endothelial growth factor C
Vhl	NM_009507.3	MGD-MRK-24093,pVHL,Vhlh,von Hippel-Lindau syndrome homolog	von Hippel-Lindau tumor suppressor
Vsir	NM_001159572.1	4632428N05RIK,Dies1,PD-1H,RIKEN cDNA 4632428N05 gene,VISTA	V-set immunoregulatory receptor
Vtcn1	NM_178594.3	B7-H4,B7c,BC032925,cDNA sequence BC032925 5830411K18RIK,AA517836,expressed sequence AA517836,MGI:2138785,RIKEN cDNA 5830411K18 gene	V-set domain containing T cell activation inhibitor 1
Wdr76	NM_030234.2	5830411K18RIK,AA517836,expressed sequence AA517836,MGI:2138785,RIKEN cDNA 5830411K18 gene	WD repeat domain 76
Wnt10a	NM_009518.1	MGD-MRK-37108	wingless-type MMTV integration site family, member 10A
Wnt11	NM_001285792.1	MGD-MRK-18782 2610510E18RIK,Int11,Int-1-related protein,Irp,MGD-MRK-11475,MGD-MRK-15439,MGD-MRK-15449,MGI:1919406,m-irp,Mirp,RIKEN cDNA 2610510E18 gene,Wnt-2,Wnt2a	wingless-type MMTV integration site family, member 11
Wnt2	NM_023653.4	2610510E18RIK,Int11,Int-1-related protein,Irp,MGD-MRK-11475,MGD-MRK-15439,MGD-MRK-15449,MGI:1919406,m-irp,Mirp,RIKEN cDNA 2610510E18 gene,Wnt-2,Wnt2a	wingless-type MMTV integration site family, member 2
Wnt2b	NM_009520.3	wingless related MMTV integration site 13,Wnt13	wingless-type MMTV integration site family, member 2B
Wnt3a	NM_009522.2	MGD-MRK-15417,MGD-MRK-15441,MGD-MRK-15451,vestigial tail,vt,Wnt-3a	wingless-type MMTV integration site family, member 3A
Wnt4	NM_009523.2	MGD-MRK-15442,MGD-MRK-15452,Wnt-4 8030457G12RIK,MGD-MRK-15443,MGD-MRK-15453,MGI:1924815,RIKEN cDNA 8030457G12 gene,Wnt-5a	wingless-type MMTV integration site family, member 4
Wnt5a	NM_009524.2	8030457G12RIK,MGD-MRK-15443,MGD-MRK-15453,MGI:1924815,RIKEN cDNA 8030457G12 gene,Wnt-5a	wingless-type MMTV integration site family, member 5A
Wnt5b	NM_009525.3	AW545702,expressed sequence AW545702,MGD-MRK-15444,MGD-MRK-15454,MGI:2141692,Wnt-5b	wingless-type MMTV integration site family, member 5B
Wnt7b	NM_009528.2	MGD-MRK-15447,MGD-MRK-15457,Wnt-7b AI661682,ATAC,expressed sequence AI661682,Lptn,LTN,lymphotactin,MGD-MRK-26027,MGI:2138317,SCM-1,SCM-1a,Scyc1,small inducible cytokine subfamily C, member 1 (lymphotactin)	wingless-type MMTV integration site family, member 7B
Xcl1	NM_008510.1	AI661682,ATAC,expressed sequence AI661682,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
Zap70	NM_009539.3	AI327364,expressed sequence AI327364,MGD-MRK-16398,MGI:2138217,MGI:3584397,MGI:3584398,mrtle,mr t-less,mur,murdoch,Srk,syk related kinase,TZK,ZAP-70	zeta-chain (TCR) associated protein kinase
Zc3h12a	NM_153159.2	BC036563,cDNA sequence BC036563,Mcpip1,MGC:41320 3110032K11RIK,AREB6,[delta]EF1,MEB1,MGD-MRK-14760,MGD-MRK-15303,MGD-MRK-19431,MGD-MRK-24149,MGI:1920415,MGI:98508,MGI:98871,Nil2,RIKEN cDNA 3110032K11 gene,Tcf18,Tcf8,transcription factor 18,transcription factor 8,Tw,twirler,ZEB,Zfhep,Zfx1a,Zfx1a,zinc finger homeobox 1a	zinc finger CCHC type containing 12A
Zeb1	NM_011546.3	9130203F04RIK,D130016B08RIK,MGI:2442196,MGI:2442919,mKIAA0569,RIKEN cDNA 9130203F04 gene,RIKEN cDNA D130016B08 gene,SIP1,Zfx1b,Zfx1b,zinc finger homeobox 1b	zinc finger E-box binding homeobox 1
Zeb2	NM_015753.4	9130203F04RIK,D130016B08RIK,MGI:2442196,MGI:2442919,mKIAA0569,RIKEN cDNA 9130203F04 gene,RIKEN cDNA D130016B08 gene,SIP1,Zfx1b,Zfx1b,zinc finger homeobox 1b	zinc finger E-box binding homeobox 2
Internal Reference Genes			
Abcf1	NM_013854.1	Abc50,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
Dnajc14	NM_028873.3	5730551F12RIK,DRIP78,HDJ3,LP6,RIKEN cDNA 5730551F12 gene	DnaJ heat shock protein family (Hsp40) member C14
Ercc3	NM_133658.1	Ercc-3,excision repair 3,MGD-MRK-9577,MGD-MRK-9580,XPB G28A,G6pd,glucose-6-phosphate dehydrogenase 1 X-linked,Gpdx,MGD-MRK-10225,MGD-MRK-33659,MGD-MRK-9915	excision repair cross-complementing rodent repair deficiency, complementation group 3
G6pdx	NM_008062.2	Ercc-3,excision repair 3,MGD-MRK-9577,MGD-MRK-9580,XPB 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 9030416F12RIK,D6Ert157e,DNA segment, Chr 6, ERATO Doi 157, expressed,MGI:1098795,MGI:1915232,MRP-L15,ribosomal protein, mitochondrial, L15,RIKEN cDNA 9030416F12 gene,RLX1,Rpml15 6720454P05RIK,BC002230,cDNA sequence BC002230,MGI:2443747,RIKEN cDNA 6720454P05 gene	glucuronidase, beta
Mrpl19	NM_026490.2	6720454P05RIK,BC002230,cDNA sequence BC002230,MGI:2443747,RIKEN cDNA 6720454P05 gene	mitochondrial ribosomal protein L19
Nrde2	NM_183155.3	6720454P05 gene	nrde-2 necessary for RNA interference, domain containing ornithine decarboxylase antizyme 1
Oaz1	NM_008753.4	Antizyme,antizyme 1,AZ1,AZ-1,MGD-MRK-38478	polymerase (RNA) II (DNA directed) polypeptide A
Polr2a	NM_009089.2	220kDa,MGD-MRK-14111,RNA polymerase II 1,Rpo2-1	proteasome (prosome, macropain) 26S subunit, ATPase, 4
Psmc4	NM_011874.2	CAR interacting protein 21,CIP21,MIP224	pumilio RNA-binding family member 1
Pum1	NM_001159605.1	AA517475,expressed sequence AA517475,MGI:2140159,mKIAA0099,Pum 2310034D06RIK,C81073,expressed sequence C81073,FP,MGI:2145519,RIKEN cDNA 2310034D06 gene,SDH2,SDHF	
Sdha	NM_023281.1	1200014H24RIK,S930416L09RIK,AI159724,expressed sequence AI159724,MGI:1924358,MGI:2144075,RIKEN cDNA 1200014H24 gene,RIKEN cDNA S930416L09 gene	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
Sf3a1	NM_026175.5	1200014H24RIK,S930416L09RIK,AI159724,expressed sequence AI159724,MGI:1924358,MGI:2144075,RIKEN cDNA 1200014H24 gene,RIKEN cDNA S930416L09 gene	splicing factor 3a, subunit 1

Stk11ip	NM_027886.3	1200014D22Rik, BB131189, expressed sequence BB131189, LIP1, LKB1IP, MGI:2138637, RIKEN cDNA 1200014D22 gene 1110003P22Rik, C87963, expressed sequence C87963, MGI:2142375, RIKEN cDNA	serine/threonine kinase 11 interacting protein
Tbc1d10b	NM_144522.5	1110003P22 gene	TBC1 domain family, member 10b
Tbp	NM_013684.3	general transcription factor IID, Gtf2d, MGD-MRK-18659, MGD-MRK-24009 2610028K12Rik, AI195355, AI426448, AU015758, CD71, E43003M20Rik, expressed sequence AI195355, expressed sequence AI426448, expressed sequence AU015758, mammary tumor virus receptor 1, MGD-MRK-12700, MGD-MRK- 12701, MGD-MRK- 15225, MGI:1923611, MGI:2146387, MGI:2146425, MGI:2146541, MGI:2442494, MG I:97229, Mtv1, Mtv1-L, p90, RIKEN cDNA 2610028K12 gene, RIKEN cDNA	TATA box binding protein
Tfrc	NM_011638.4	E43003M20 gene, TfR1, TfRf 4933403M19Rik, MGI:1918299, PKUalpha, protein kinase U-alpha, RIKEN cDNA	transferrin receptor
Tlk2	NM_011903.3	4933403M19 gene	tousled-like kinase 2 (Arabidopsis)
Tmub2	NM_028076.2	2010008E23Rik, RIKEN cDNA 2010008E23 gene	transmembrane and ubiquitin-like domain containing 2
Ubb	NM_011664.4	AL033289, expressed sequence AL033289, MGD-MRK-15326, MGD-MRK- 33606, MGI:2141542, Ubb2, ubiquitin 2	ubiquitin B