

nCounter[®] Mouse Neuroinflammation Panel - Gene and Probe Details

Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or Isoform Information
Abcc3	NM_029600.3	1700019L09Rik,MRP3,RIKEN cDNA 1700019L09 gene	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	
Abcc8	NM_011510.3	D930031821Rik,MGD-MRK-33673,MGI:105993,MGI:3036285,RIKEN cDNA D930031821 gene,sulfonylurea receptor,Sur,SUR1	ATP-binding cassette, sub-family C (CFTR/MRP), member 8	
Abi1	NM_009594.4	A1325092,c-Abi,E430008G22Rik,expressed sequence A1325092,MGD-MRK-1015,MGI:2138905,MGI:2443781,RIKEN cDNA E430008G22 gene	c-abl oncogene 1, non-receptor tyrosine kinase	
Adamts16	NM_172053.2	MGC:37086	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin	
Ago4	NM_153177.3	factor 2C, 4,expressed sequence A1481660,MGI:2140312,RIKEN cDNA 5730550L01 gene	argonate RISC catalytic subunit 4	
Agt	NM_007428.3	A1265500,angiotensin precursor,Aogen,expressed sequence A1265500,MGD-MRK-1192,MGI:2142488,Serpina8	angiotensinogen (serpin peptidase inhibitor, clade A, member 8)	
Ai464131	NM_001085515.2	(NCBI),Gm762,MGI:2140126,MGI:2140342,MGI:2685608,NET37	expressed sequence AI464131	
Ak1	NM_001198790.1	Ak-1,B430205N08Rik,MGD-MRK-1240,MGD-MRK-1244,MGI:2445070,RIKEN	adenylate kinase 1	
Akt1	NM_001165894.1	Akt,MGD-MRK-1257,PKB,PKB/Akt,PKBalpha	thymoma viral proto-oncogene 1	
Akt2	NM_001110208.1	28173,MGI:1923730,MGI:2142261,PKB,PKBbeta,RIKEN cDNA 2410016A19 gene	thymoma viral proto-oncogene 2	
Aldh1l1	NM_027406.1	1810048F20Rik,formyltetrahydrofolate dehydrogenase,Fthfd,MGI:1917624,RIKEN cDNA 1810048F20 gene	aldehyde dehydrogenase 1 family, member L1	
Ambra1	NM_001080754.1	AA474864,expressed sequence AV021921,MGI:1923722,MGI:2139238,MGI:3034430,mKIAA1736,RIKEN cDNA	autophagy/beclin 1 regulator 1	
Amigo2	NM_178114.4	2310079H06 gene,RIKEN cDNA D030051N19 gene	adhesion molecule with Ig like domain 2	
Anapc15	NM_027532.3	A1415330,AW208913,expressed sequence A415330,expressed sequence 320002M19Rik,6330414C15Rik,MGI:1917991,RIKEN cDNA 320002M19 gene,RIKEN cDNA 6330414C15 gene	anaphase promoting complex C subunit 15	
Anxa1	NM_010730.2	Anx-1,Anx-A1,C430014K04Rik,lipocortin 1,Lpc1,Lpc-1,MGD-MRK-11869,MGD-MRK-11870,MGI:2442613,RIKEN cDNA C430014K04 gene	annexin A1	
Apc	NM_007462.3	sequence AU020952,expressed sequence AW124434,MGD-MRK-1347,MGD-MRK-16245,MGI:2147196,MGI:2147309,MGI:2147352,Min,multiple intestinal neoplasia	adenomatous polyposis coli	
Apop1	NM_009687.2	HAPI,MGD-MRK-1352,Ref-1	apurinic/apyrimidinic endonuclease 1	
ApoE	NM_00105844.1	A1255918,expressed sequence A1255918,MGD-MRK-1376,MGI:2141887	apolipoprotein E	
Arc	NM_018790.2	Arc3.1,arc 3.1,C86064,expressed sequence C86064,MGD-MRK-	activity regulated cytoskeletal-associated protein	
Arhgap24	NM_029270.2	0610025G21Rik,RIKEN cDNA 0610025G21 gene	Rho GTPase activating protein 24	
Arid1a	NM_001080819.1	gene,Smurf1,SWI/SNF related, matrix associated, actin dependent regulator of chromatin,subfamily f, member 1	AT rich interactive domain 1A (SWI-like)	
Asb2	NM_023049.1	1110008E15Rik,MGI:1915827,RIKEN cDNA 1110008E15 gene	ankyrin repeat and SOCS box-containing 2	
Ash2l	NM_001080793.1	2310005F16Rik,3110001L23Rik,A1848629,aspartyl beta-hydroxylase,AW261690,AW561901,BAH,calsequestrin-binding protein,cDNA sequence, clone 2-5,cl-37,EST A1848629,expressed sequence AW261690,jumbug,junctate,junctin,MGI:1917495,MGI:1930795,MGI:213555	ASH2 like histone lysine methyltransferase complex subunit	
Asph	NM_001177849.1	6.MGI:2140566,RIKEN cDNA 2310005F16 gene,RIKEN cDNA 3110001L23 gene	aspartate-beta-hydroxylase	
Atf3	NM_007498.3	LRG-21,MGD-MRK-38429	activating transcription factor 3	
Atg14	NM_172599.4	Barkor,D14ErtD114e,D14ErtD436e,DNA segment, Chr 14, ERATO Doi 114, expressed,DNA segment, Chr 14, ERATO Doi 436, expressed,MGI:1098807	autophagy related 14	
Atg3	NM_026402.3	2610016C12Rik,APG3,APG3 autophagy 3-like (S. cerevisiae),Ap3l,PC3-96,RIKEN cDNA 2610016C12 gene	autophagy related 3	
Atg5	NM_001314013.1	C88337,MGI:1277148,MGI:1917267,MGI:1920439,MGI:2143833,MGI:214395	autophagy related 5	
Atg7	NM_028835.1	0.paddy,Paddy,RIKEN cDNA 2010107M05 gene,RIKEN cDNA 3110067M24	autophagy related 7	
Atg9a	NM_001003917.3	1810013K23Rik,App7,autophagy 7-like (S. cerevisiae),RIKEN cDNA	autophagy related 9A	
Atm	NM_007499.2	APG9 autophagy 9-like 1 (S. cerevisiae),Apg9l1,AU019532,expressed sequence A1256621,C030026E19Rik,expressed sequence A1256621,MGD-MRK-	ataxia telangiectasia mutated	
Atp6v0e	NM_025272.2	35663,MGI:1924666,MGI:2143000,RIKEN cDNA C030026E19 gene	ATPase, H+ transporting, lysosomal V0 subunit E	
Atp6v1a	NM_007508.5	Atp6a,ATPase, H+ transporting lysosomal (vacuolar proton pump), 9.2	ATPase, H+ transporting, lysosomal V1 subunit A	
Atr	NM_019864.1	alpha 70 kDa, isoform 1, expressed sequence A1647066,lysosomal 70kDa,MGI:2146472,VA68,VP22	ataxia telangiectasia and Rad3 related	
Axl	NM_009465.3	MGD-MRK-37064	axl receptor tyrosine kinase	
B3gnt5	NM_001159407.1	A1323647,Ark,expressed sequence A1323647,MGD-MRK-15343,MGI:2141908,MGI:98896,Tyro7,Ufo,ufo oncogene homolog	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltransferase 5	
Bad	NM_007522.3	15343,MGI:2141908,MGI:98896,Tyro7,Ufo,ufo oncogene homolog	BCL2-associated agonist of cell death	
Bag3	NM_013863.4	A1325008,Bbc2,expressed sequence A1325008,MGI:2147509	BCL2-associated athanogene 3	
Bag4	NM_026121.3	A440778,Bcl-2-interacting death suppressor,Bis,expressed sequence	BCL2-associated athanogene 4	
Bak1	NM_007523.2	241011215Rik,RIKEN cDNA 241011215 gene	BCL2-antagonist/killer 1	
Bard1	NM_007525.3	Bak,N-Bak	BRCA1 associated RING domain 1	
Bax	NM_007527.3	predicted gene, ENSMUSG0000060893,predicted gene, ENSMUSG0000073653	BCL2-associated X protein	
Bbc3	NM_133234.1	MGD-MRK-16487	BCL2 binding component 3	
Bcas1	NM_029815.2	PUMA	BCL2 binding component 3	
Bcl10	NM_009740.1	2210416M21Rik,9030223A09Rik,A1841227,expressed sequence A1841227,MGI:1924916,MGI:2139067,NABC1,RIKEN cDNA 2210416M21 gene,RIKEN cDNA 9030223A09 gene	B cell leukemia/lymphoma 10	
Bcl2	NM_009741.3	A1132454,BCL-10,C81403,cE10,expressed sequence A1132454,expressed sequence C81403,mE10,MGI:2139636,MGI:2140085	B cell leukemia/lymphoma 2	
Bcl2a1a	NM_009742.3	sequence AW986256,MGD-MRK-1524,MGD-MRK-1526,MGI:2138629,MGI:2442315,MGI:2444619,MGI:2444682,RIKEN cDNA C430015F12 gene,RIKEN cDNA D630044D05 gene,RIKEN cDNA D830018M01 gene	B cell leukemia/lymphoma 2 related protein A1a	Bcl2a1d (NM_007536), Bcl2a1c (NM_007535), Bcl2a1b (NM_007534)
Bcl2l1	NM_009743.4	A1,BB218357,Bcl2a1,Bcl-2-related protein A1,Bcl-1,expressed sequence BB218357,Hbpa1,hematopoietic Bcl-2-related protein A1,MGD-MRK-18735,MGD-MRK-19590,MGI:2143372	BCL2-like 1	
Bcl2l11	NM_001284410.1	bcl-x,BclX,Bcl-XL,Bcl(X)L,Bcl-Xs,MGD-MRK-1527	BCL2-like 11 (apoptosis facilitator)	
Bcl2l2	NM_007537.1	1500006F24Rik,Bcl2 interacting mediator of cell death,bim,Bod,MGI:1923589,RIKEN cDNA 1500006F24 gene	BCL2-like 2	
Bdnf	NM_007540.4	4.1, gene trap ROSA b-gal 2, Gtngal2, Gtrosa41, MGD-MRK-32102, MGD-MRK-37088, MGI:105063, MGI:1202303, MGI:2145789	brain derived neurotrophic factor	
Becn1	NM_019584.3	MGD-MRK-1534	beclin 1, autophagy related	
Bid	NM_007544.3	Atg5,MGC-6843	BH3 interacting domain death agonist	
Bik	NM_007546.2	A1875481,expressed sequence AU022477,MGD-MRK-37130,MGI:1919829,MGI:2141512,MGI:2141571,RIKEN cDNA 2700049M22 gene	BCL2-interacting killer	
Bin1	NM_01083334.1	gene	bridging integrator 1	
Birc2	NM_007465.2	AW146227,HIAP1,IAP1,mclIAP1,MGI:1924866,MGI:2143294,MIAP1,MIHB,RIKE N cDNA C330006D17 gene	baculoviral IAP repeat-containing 2	
Birc3	NM_007464.3	Ap2,apoptosis inhibitor 1,AW107670,cIAP2,cIAP-2,expressed sequence AW107670,HIAP2,IAP2,MGI:2143290,MIAP2,MIHC,RNF49	baculoviral IAP repeat-containing 3	
Birc5	NM_009689.2	Ap4,apoptosis inhibitor 4,MGI:1196343,survivin,TIAP	baculoviral IAP repeat-containing 5	
Blk	NM_007549.2	MGD-MRK-1577	B lymphoid kinase	
Blm	NM_001042527.2	BASH,Bca,BCA,B cell activation-related gene,BLNK,Ly57,Ly-57,lymphocyte antigen 57,MGD-MRK-11999,MGD-MRK-12042,MGI:1278314,SLP-65	Bloom syndrome, RecQ like helicase	
Bmi1	NM_007552.4	AWS46694,MGD-MRK-1588,MGD-MRK-1589,MGI:2139375,Pcgf4,polycomb group ring finger 4	Bmi1 polycomb ring finger oncogene	
Bnip3	NM_009760.4	MGD-MRK-38371,Nip3	BCL2/adenovirus E1B interacting protein 3	
Bnip3l	NM_009761.3	C86132,D14ErtD719e,DNA segment, Chr 14, ERATO Doi 719, expressed,expressed sequence C86132,MGI:1289182,MGI:2145873,Nip3L,Nix A1847676,AU021146,expressed sequence A1847676,expressed sequence	BCL2/adenovirus E1B interacting protein 3-like	
Bok	NM_016778.2	AU021146,matador,MGI:2138345,MGI:2138464,mtid	BCL2-related ovarian killer	
Bola2	NM_175103.3	1110025L05Rik,RIKEN cDNA 1110025L05 gene	bolA-like 2 (E. coli)	

		transforming gene 2,C87398,D6Erd631e,DNA segment, Chr 6, ERATO Doi 631, expressed,expressed sequence AA120551,expressed sequence AA387315,expressed sequence AA473386,expressed sequence C87398,MGD-MRK-1618,MGD-MRK-1619,MGD-MRK-1621,MGI:1277149,MGI:2141786,MGI:2442536,MGI:3034546,MGI:3034892,MGI:3034940,RIKEN cDNA 9930012E13 gene	Braf transforming gene breast cancer 1, early onset
Braf	NM_139294.5		
Brc1	NM_009764.3	MGD-MRK-25968	
		AW228947,D17H6S113E,DNA segment, Chr 17, human D6S113E,expressed sequence AW228947,female sterile homeotic-related gene 1, Fig-1,Fsrg1,MGD-MRK-16269,MGI:2147056, Ring3,ring finger protein 3,Rnf3	bromodomain containing 2
Brd2	NM_010238.3		
		2410084F24Rik,AW060456,expressed sequence	
Brd3	NM_001113573.1	AW060456,Fsrg2,MGI:2139285,ORFX,RIKEN cDNA 2410084F24 gene,RINGL3	bromodomain containing 3
Brd4	NM_001286630.1	DNA segment, WI-11513,HUNK1,MCAP,MGI:1337084,WI-11513	bromodomain containing 4
		A1528679,Bruton's tyrosine kinase,expressed sequence A1528679,MGD-MRK-15473,MGD-MRK-1683,MGI:2147899,xid,X-linked immune deficiency	Bruton agammaglobulinemia tyrosine kinase
Btk	NM_013482.2		
C1qa	NM_007572.2	A125395,C1q,expressed sequence A125395,MGD-MRK-1696,MGI:2140213	complement component 1, q subcomponent, alpha polypeptide
C1qb	NM_009777.2	MGD-MRK-1697	complement component 1, q subcomponent, beta polypeptide
		A1385742,C1qg,complement component 1, q subcomponent, c polypeptide, complement component 1, q subcomponent, gamma polypeptide,expressed sequence A1385742,MGD-MRK-1698,MGI:2140252	complement component 1, q subcomponent, C chain
C1qc	NM_007574.2		
		acylation stimulating protein,A1255234, complement factor 3, expressed sequence A1255234,MGD-MRK-1700,MGI:2146809,Pip	complement component 3
C3	XM_011246258.1		
C3ar1	NM_009779.2	anaphylatoxin C3a receptor,C3aR	complement component 3a receptor 1
C3a	NM_011413.2	MGD-MRK-14443,sex-limited protein,Slp	complement component 4A (Rodgers blood group) C4b (NM_009780)
		C5aR,C5r1,Cd88, complement component 5, receptor 1,D7Msu1,DNA segment, Chr 7, Michigan State University 1,MGD-MRK-1710,MGI:2180152	complement component 5a receptor 1
C5ar1	NM_007577.3		
C6	NM_016704.2	AW111623,expressed sequence AW111623,MGD-MRK-1711,MGI:2146192	complement component 6
Cables1	NM_001146287.1	ik3-1,interactor-1 with cdk3	CDK5 and Abl enzyme substrate 1
		2410154I16Rik,C77254,expressed sequence	
Calcoco2	NM_001271018.1	C77254,MGI:1924065,MGI:2144626,Ndp52,Ndp52i1,nuclear domain 10 protein 52,nuclear domain 10 protein 52 like 1,RIKEN cDNA 2410154I16 gene	calcium binding and coiled-coil domain 2
Calr	NM_007591.3	Calregulin,CRT,MGD-MRK-1739	calreticulin
		IV/Gr,CaMKIV,CaMKIV/Gr,D18Bwg0362e,DNA segment, Chr 18, Brigham & Women's Genetics 0362 expressed,expressed sequence A1666733,MGD-MRK-1745,MGD-MRK-33961,MGI:106269,MGI:2147260,MGI:3026992,RIKEN cDNA	calcium/calmodulin-dependent protein kinase IV
Camk4	NM_009793.3	A430110E23 gene	
		Caspase-1,ICE,II1bc,interleukin 1 beta convertase,interleukin 1 beta-converting enzyme,MGD-MRK-11368	caspace 1
Casp1	NM_009807.2		
		Caspase-2,ich-1,MGD-MRK-12808,Nedd2,neural precursor cell expressed, developmentally down-regulated gene 2	caspace 2
Casp2	NM_007610.1		
		A830040C14Rik,AC-3,Apopain,Caspase-3,CC3,PPP32,melody,MGD-MRK-36315,MGI:2442726,MGI:3717434,mldy,RIKEN cDNA A830040C14 gene,Yama	caspace 3
Casp3	NM_009810.2		
		caspace 11, apoptosis-related cysteine protease,Casp11,Caspase-11,caspase 11, apoptosis-related cysteine peptidase,ich-3,MGD-MRK-36276	caspace 4, apoptosis-related cysteine peptidase
Casp4	NM_007609.2		
Casp6	NM_009811.3	mCASP-6,Mch2	caspace 6
		A1314680,caspase-7,CMH-1,expressed sequence A1314680,ICE-IAP3,Mch3,MGD-MRK-35428,MGI:2147501	caspace 7
Casp7	NM_007611.2		
Casp8	NM_009812.2	Caspase-8,FLICE,MACH,Mch5	caspace 8
		A1115399,AW493809,Caspase-9,expressed sequence A1115399,expressed sequence AW493809,ICE-LAP6,Mch6,MGI:2140188,MGI:2140578	caspace 9
Casp9	NM_015733.4		
Cass4	NM_001080820.2	F730031O2ORik,RIKEN cDNA F730031O2O gene	Cas scaffolding protein family member 4
		14333,MGD-MRK-14413,MGI:2144120,monocyte chemoattractant protein-1,monocyte chemotactic protein,Scy2,Sigle,small inducible cytokine A2,small inducible gene JE,SMC-CF	chemokine (C-C motif) ligand 2
Ccl2	NM_011333.3		
		11D78alpha,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,Scy3,small inducible cytokine A3	chemokine (C-C motif) ligand 3
Ccl3	NM_011337.1		
		12242,MGD-MRK-14335,Mip1b,MIP-1B,MIP-1 beta,Scy4,small inducible cytokine A4	chemokine (C-C motif) ligand 4
Ccl4	NM_013652.1		
Ccl5	NM_013653.1	MGD-MRK-14336,MuRantes,RANTES,Scy5,SISd,small inducible cytokine	chemokine (C-C motif) ligand 5
Ccl7	NM_013654.3	fic,marc,mcp3,MCP-3,MGD-MRK-16289,Scy7,small inducible cytokine A7	chemokine (C-C motif) ligand 7
Ccng2	NM_007635.4		
Ccni	NM_017367.3		
Ccr2	NM_009915.2	CC-CCR-2,CCR2A,CCR2B,CCR2,CCR2A,CCR2B,Cmkbr2,MGD-MRK-33876	chemokine (C-C motif) receptor 2
Ccr5	NM_009917.5	CD195,chemokine (C-C) receptor 5,Cmkbr5,MGD-MRK-35643	chemokine (C-C motif) receptor 5
		9930012E15Rik,A1480638,expressed sequence A1480638, Gov platelet alloantigens,MGI:2143078,RIKEN cDNA 9930012E15 gene	CD109 antigen
Cd109	NM_153098.3		
Cd14	NM_009841.3	MGD-MRK-1831	CD14 antigen
Cd163	NM_053094.2		
Cd19	NM_009844.2	AW495831,expressed sequence AW495831,MGD-MRK-1833,MGI:2142241	CD19 antigen
Cd209e	NM_130905.2	mSIGNR4,SIGNR4	CD209e antigen
		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
Cd244	NM_018729.2		
		cluster of differentiation 24,heat stable antigen,HSA,Ly-52,lymphocyte antigen 52,MGD-MRK-11995,MGD-MRK-1840,nectadrim	CD24a antigen
Cd24a	NM_009846.2		
Cd300f	NM_001169153.1	CLM-1,Dlgr2,F7300D416Rik,IgSF13,IREM1,LMIR3,Pigr,RIKEN cDNA	CD300 molecule like family member F
Cd33	NM_00111058.1	gp67,MGD-MRK-16204,Siglec-3	CD33 antigen
Cd36	NM_007643.3	FAT,fatty acid transferase,MGD-MRK-36478,Scar3	CD36 molecule
Cd3d	NM_013487.2	MGD-MRK-14696,MGD-MRK-1852,T3d,T3-delta chain	CD3 antigen, delta polypeptide
		A1504783,CD3,CD3epsilon,expressed sequence A1504783,MGD-MRK-14697,MGD-MRK-1853,MGI:2143086,T3e,T3-epsilon chain	CD3 antigen, epsilon polypeptide
Cd3e	NM_007648.4		
Cd3g	NM_009850.2	Ct3g,Ct3-g,MGD-MRK-14698,MGD-MRK-1854,MGD-MRK-2212,MGD-MRK-1859,MGI:2138913,p50,Tnfrsf5,tumor necrosis factor receptor superfamily, member 5	CD3 antigen, gamma polypeptide
		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	CD40 antigen
Cd40	NM_011611.2		
		9130415E2ORik,AA407862,A1848868,AW108519,B430305P08Rik,expressed sequence AA407862,expressed sequence A1848868,expressed sequence AW108519,IAP,integrin-associated protein,Itpg,MGD-MRK-11496,MGI:1918837,MGI:1925789,MGI:2146333,MGI:2146503,MGI:2146621,RIKEN cDNA 9130415E2O gene,RIKEN cDNA B430305P08 gene	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)
Cd47	NM_010581.3		
Cd6	NM_001037801.2	MGD-MRK-24451	CD6 antigen
Cd68	NM_009853.1	gp110,Lamp4,macrosialin,MGD-MRK-1868,Scard1	CD68 antigen
		5830438K24Rik,A1452015,A1M,EST A1452015,MGD-MRK-	
Cd69	NM_001033122.3	1869,MGI:1889838,MGI:19232199,RIKEN cDNA 5830438K24 gene,VEA	CD69 antigen
Cd70	NM_011617.1	CD27L,Ki-24 antigen,Tnfsf7,tumor necrosis factor (ligand) superfamily, B-lymphocyte antigen 2,Ly-19,Ly-32,Lyb-2,Ly-m19,lymphocyte antigen 19,lymphocyte antigen 32,lymphocyte antigen m19,MGD-MRK-11957,MGD-MRK-11973,MGD-MRK-12012,MGD-MRK-12054,MGD-MRK-1871	CD72 antigen
Cd72	NM_001110320.1		
Cd74	NM_001042605.1	CLIP,la-associated invariant chain,li,MGD-MRK-11344	CD74 antigen (invariant polypeptide of major histocompatibility complex, class
Cd83	NM_009856.2		
Cd84	NM_013489.2	A130013D22Rik,CdW84,MGI:2444272,RIKEN cDNA A130013D22 gene,SLAMF5	CD84 antigen
		58,MB7-2,MGD-MRK-12000,MGD-MRK-12043,MGD-MRK-18572,MGD-MRK-18580	CD86 antigen
Cd86	NM_019388.3		
		B8154331,expressed sequence B8154331,Ly-2,Ly-35,Ly-8,lymphocyte antigen 2,lymphocyte antigen 35,Ly-2,MGD-MRK-11958,MGD-MRK-11976,MGD-MRK-12074,MGD-MRK-1872,MGI:2141733,T-lymphocyte antigen 2	CD8 antigen, alpha chain
Cd8a	NM_001081110.2		
		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
Cd8b1	NM_009858.2		
Cdc25a	NM_007658.3	D9Erd393e,DNA segment, Chr 9, ERATO Doi 393, expressed,MGD-MRK-A1597260,Cdc711,cell division cycle 71 homolog [S. cerevisiae]-like 1,expressed sequence A1597260,MGI:2140941,muCdc7	cell division cycle 25A
Cdc7	NM_001271566.1		
		sequence AU019450,expressed sequence AW558027,MGI:2145459,RIKEN cDNA 493270G04 gene	cyclin-dependent kinase 20
Cdk20	NM_053180.2		

		(B2B/CVDC), mutation 3190Cecilia Lo,D630004B07RIK,Dock180,expressed sequence	
Dock1	NM_001033420.2	A185490,MGI:1918821,MGI:2142074,MGI:2442765,MGI:5618854,Mutant line 3190,RIKEN cDNA 9130006G06 gene,RIKEN cDNA D630004B07 gene	dedicator of cytokinesis 1
Dock2	NM_033374.3	A1662014,AW122239,CEI-D-5,expressed sequence A1662014,expressed sequence AW122239,Hch,MBC,MGI:2144253,MGI:2144499	dedicator of cyto-kinesis 2
Dot1	NM_199322.1	AW907654,expressed sequence AW907654,KMT4,mDot1	DOT1-like, histone H3 methyltransferase (S. cerevisiae)
		PAG1-n,bullous pemphigoid antigen,bullous pemphigoid antigen 1,bullous pemphigoid antigen 1, 230 kDa,dt,dystonia musculorum,expressed sequence AW554249,Macf2,MGD-MRK-1199,MGD-MRK-1612,MGD-MRK-1613,MGD-MRK-26064,MGD-MRK-8910,MGI:1916744,MGI:2138613,MGI:2444206,MGI:2681949,MGI:3580062,mKIAA0728,neuroscience mutagenesis facility, 203,neuroscience mutagenesis facility, 339,nm1203,nmf339,RIKEN cDNA 2310001004 gene,RIKEN cDNA	dystonin
Dst	NM_010081.2	BC019755,cDNA sequence BC019755,MGC:25550,Nip1	dual oxidase maturation factor 1
Duoxa1	NM_145395.2	AU015694,expressed sequence AU015694,MGI:2143192,MKP-X,PYST2	dual specificity phosphatase 7
Dusp7	NM_153459.4	E2F-1,MGD-MRK-18775	E2F transcription factor 1
E2f1	NM_007891.4	11693,MGD-MRK-11725,MGD-MRK-9305,MGI:3584396,MGI:3641985,MGI:96737,predicted gene,ENSMUSG0000039973	embryonic ectoderm development
Eed	NM_021876.3	C86191,eEF-2K,expressed sequence C86191,MGI:2142363	eukaryotic elongation factor-2 kinase
Eef2k	NM_007908.3	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 9030024115 gene,wa2,wa-2,Wa5,waved 2,waved 5	epidermal growth factor receptor
Egfr	NM_207655.2	box 24,MGD-MRK-11608,MGD-MRK-11621,MGD-MRK-15902,MGD-MRK-9324,MGD-MRK-9326,MGI:2444717,NGFI-A,NGFIA,NGFI-A,RIKEN cDNA A530045N19 gene,TIS8,ZenK,Zfp-6,Zif268,zinc finger protein 6	early growth response 1
Egr1	NM_007913.5	B associated transcript 8,KMT1C,MGD-MRK-1513,MGI:1289297,MGI:1925626,MGI:88132,NG36	euchromatic histone lysine N-methyltransferase 2
Elmt2	NM_145830.1	MGD-MRK-32166,Sul1-rs1,suppressor of initiator codon mutations, related sequence 1 (S. cerevisiae)	eukaryotic translation initiation factor 1
Elf1	NM_011508.1	0610012K22RIK,A1315669,expressed sequence	
Emcn	NM_001163522.1	A1315669,MGI:1915613,MGI:2139669,RIKEN cDNA 0610012K22 gene	endomucin
Emp1	NM_010128.4	MGD-MRK-36521	epithelial membrane protein 1
		4833421B01RIK,B830047L21RIK,D8Erd514e,DNA segment, Chr 8, ERATO Doi 514, expressed,MGI:1261759,MGI:1921014,Npp6,RIKEN cDNA 4833421B01 gene,RIKEN cDNA B830047L21 gene	ectonucleotide pyrophosphatase/phosphodiesterase 6
Enpp6	NM_177304.3	CD39 antigen-like 1,Cd39I1,NTPDase2	ectonucleoside triphosphate diphosphohydrolase 2
Entpd2	NM_009849.2	C77258,expressed sequence C77258,MGI:1313283,MGI:2143384,T-box brain	eomesodermin
Eomes	NM_010136.2	KAT3B,p300	E1A binding protein p300
Ep300	NM_177821.6	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
Epcam	NM_008532.2	A1661957,expressed sequence	
Epg5	NM_001195633.1	AW456499,MGI:2147255,MGI:2147364,mKIAA1632,RIKEN cDNA 5430411K18 2310046K10RIK,5033415K03RIK,BRES1,MGI:1923238,RIKEN cDNA	ectopic P-granules autophagy protein 5 homolog (C. elegans)
Eps11	NM_029495.2	2310046K10 gene,RIKEN cDNA 5033415K03 gene	epithelial stromal interaction 1 (breast)
		avian erythroblastosis oncogene B 3,avian erythroblastosis oncogene B 3 receptor,C76256,Erbb-3,Erbb3r,expressed sequence C76256,HER3,MGD-MRK-9572,MGD-MRK-9574,MGI:1098642,MGI:2143908	erb-b2 receptor tyrosine kinase 3
Erb3	NM_010153.1	A407812,expressed sequence AU020867,expressed sequence AW240756,Martin Hrabe de Angelis reduced coat 15,MGD-MRK-9576,MGD-MRK-	excision repair cross-complementing rodent repair deficiency, complementation group 2
Ercc2	NM_007949.4	9579,MGI:2141808,MGI:2142167,MGI:2142224,MGI:5621282,Mhcarco15,RC	endothelial cell-specific adhesion molecule
Esam	NM_027102.3	2310008D05RIK,RIKEN cDNA 2310008D05 gene,W117m	E26 avian leukemia oncogene 2, 3' domain
Ets2	NM_011809.2	AU022856,Ets-2,expressed sequence AU022856,MGD-MRK-9664,MGD-MRK-	exonuclease 1
Evo1	NM_012012.4	5730442G03RIK,MGI:1917804,Msa,RIKEN cDNA 5730442G03 gene	enhancer of zeste 1 polycomb repressive complex 2 subunit
Ezh1	NM_007970.1	AW557915,expressed sequence AW557915,MGI:2144579,mKIAA0388	enhancer of zeste 2 polycomb repressive complex 2 subunit
Ezh2	NM_007971.2	enhancer of zeste homolog (Drosophila),Emx-1,Enx1h,KMT6,MGD-MRK-35129,MGD-MRK-36520,MGI:106670	
		AA409063,CD142,Cf3,Cf-3,expressed sequence AA409063,MGD-MRK-1947,MGD-MRK-1953,MGI:2139567,TF,tissue factor	coagulation factor III
F3	NM_010171.3	Fatty acid hydroxylase domain containing 1,Faxdc1,G630055L08RIK,RIKEN	fatty acid 2-hydroxylase
Fa2h	NM_178086.3	Fabpe E-FABP,keratinocyte lipid binding protein,Klbp,mal1,MGD-MRK-18598,Unknown Klbp, keratinocyte lipid binding protein	fatty acid binding protein 5, epidermal
Fabp5	NM_010634.3	MGD-MRK-38369,Mort1/FADD	Fas (TNFRSF6)-associated via death domain
Fadd	NM_010175.5	BB116513,expressed sequence BB116513,Facc,Fanconi anaemia, complementation group C,MGD-MRK-9707,MGI:2145472	Fanconi anemia, complementation group C
Fancc	NM_007985.2	AU015151,expressed sequence	
Fancd2	NM_001033244.3	BB137857,MGI:1925497,MGI:2141547,MGI:2141730,RIKEN cDNA	Fanconi anemia, complementation group D2
Fancg	NM_053081.2	AU041407,expressed sequence AU041407,MGI:2140478,Xrcc9	Fanconi anemia, complementation group G
Fas	NM_007987.2	AI196731,lr,lymphoproliferation,MGD-MRK-11878,MGD-MRK-9711,MGI:2147489,TNFR6,TNF receptor superfamily member 6,Tnfrsf6	Fas (TNF receptor superfamily member 6)
FasL	NM_010177.3	lymphoproliferative disease,gld,MGD-MRK-10104,MGD-MRK-16013,Tnfsf6,tumor necrosis factor (ligand) superfamily, member 6	Fas ligand (TNF superfamily, member 6)
Fbln5	NM_011812.4	EVEE	fibulin 5
		A1573376,expressed sequence A1573376,Fccl1g,Fc epsilon high affinity receptor gamma,Fc epsilon1b,FCR1g,FcRgamma,FcR-gamma,Ly-50,lymphocyte antigen 50,MGD-MRK-11993,MGD-MRK-9726,MGD-MRK-9730,MGI:2138290	Fc receptor, IgE, high affinity I, gamma polypeptide
Fcer1g	NM_010185.4	A1323638,AV092959,CD64,expressed sequence A1323638,expressed sequence AV092959,FcgammaRII,MGD-MRK-9732,MGI:2139673,MGI:2139933	Fc receptor, IgG, high affinity I
Fcgr1	NM_010186.5	receptor 2,Fc gamma receptor 3,FcgammaRIIIB,Fc gamma RIIB,Fcgr2,Fcgr2a,FcgrRII,FcRRIIFcR-2,FcR-3,Fc receptor, IgG, low affinity II,Fc receptor, IgG, low affinity IIa,Ly-17,Lym-1,Lym-1,Lym-20,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	Fc receptor, IgG, low affinity IIb
Fcgr2b	NM_001077189.1	CD16,FcgammaRIIIFcgr receptor III,MGD-MRK-9736	Fc receptor, IgG, low affinity III
Fcgr3	NM_010188.5	BB219290,expressed sequence BB219290,Fc receptor related	
Fcrla	NM_145141.2	X,FcRL1,Fcrx,FREB,Freb1,mFcrx,mFREB	Fc receptor-like A
Fcrlb	NM_001029984.2	Fc receptor related Y,FcRL2,Fcyr,FREB2,FREB-2,mFCRL2	Fc receptor-like B
		2810439C17RIK,Fcrl2,IFGP2,macrophage scavenger receptor	
Fcrls	NM_030707.3	2,MGI:1920010,moFcrH2cs,Msr2,RIKEN cDNA 2810439C17 gene	Fc receptor-like S, scavenger receptor
Fdxr	NM_007997.1	MGD-MRK-27087	ferredoxin reductase
Fen1	NM_001271614.1	AW538437,expressed sequence AW538437,MGD-MRK-19687,MGI:2147740	flap structure specific endonuclease 1
		14935,MGI:98500,Tcd2,Tcd-2,t-complex distorter 2,t-complex sterility	
Fgd2	NM_001159538.1	2,tcs2,tcs-2	FYVE, RhoGEF and PH domain containing 2
Fgf13	NM_010200.2	Fhf2,MGD-MRK-38222	fibroblast growth factor 13
Fgl2	NM_008013.2	A1385601,expressed sequence A1385601,MGD-MRK-24145,MGI:2140850	fibronogen-like protein 2
		ERATO Doi 592, expressed,FKBP51,MGD-MRK-16741,MGD-MRK-27033,MGI:1261871	FK506 binding protein 5
Fkbp5	NM_010220.3	9836,MGI:2140833,svascular endothelial growth factor receptor-1,VEGFR1,VEGFR-1	FMS-like tyrosine kinase 1
Flt1	NM_010228.3	c-fos,cD12RF1,DNA segment, Chr 12, Russel F. Jacoby 1,MGD-MRK-	FBJ osteosarcoma oncogene
Fos	NM_010234.2	JM2,MGD-MRK-14368,MGI:98281,scurfin,scurfy,sf	forkhead box P3
Foxp3	NM_054039.2	fMLF-R,FPF,MGD-MRK-35914	formyl peptide receptor 1
Fpr1	NM_013521.2	A1663989,expressed sequence A1663989,Fan1,fascin 1,fascin-1,MGD-MRK-36269,MGI:107693,MGI:2140957	fascin actin-bundling protein 1
Fscn1	NM_007984.2	A1448320,AW552119,expressed sequence A1448320,expressed sequence AW552119,MGD-MRK-9909,MGI:2143602,MGI:2143864,Src kinase p59	Fyn proto-oncogene
Fyn	NM_008054.2	AA545191,Ddit1,DNA-damage inducible transcript 1,expressed sequence	
Gadd45a	NM_007836.1	AA545191,MGD-MRK-36376,MGI:2141368	growth arrest and DNA-damage-inducible 45 alpha
Gadd45g	NM_011817.2	A1327420,C86281,C86,expressed sequence A1327420,expressed sequence C86281,MGI:2145220,MGI:2145531,OIG37	growth arrest and DNA-damage-inducible 45 gamma

		(3'-phosphoadenylylsulfate:galactosylceramide 3') sulfotransferase, Cst, galactosylceramide sulfotransferase, GalCer sulfotransferase, Gcst	galactose-3-O-sulfotransferase 1
Gal3st1	NM_001177691.1		
Gba	NM_001077411.1	betaGal, GBA1, GC, GCase, glucocerebrosidase, MGD-MRK-10007	glucosidase, beta, acid
Gbp2	NM_010260.1	MGD-MRK-19679	guanylate binding protein 2
Gclc	NM_010295.2	expressed, gamma GCS-HS, Glicl, GLCL-H, glutamate cysteine ligase (gamma-glutamylcysteine synthetase), catalytic, MGD-MRK-31063, MGD-MRK-36456, MGI:107879	glutamate-cysteine ligase, catalytic subunit
Gdpd2	NM_023608.3	9130017L10RIK, GDE3, RIKEN cDNA 9130017L10 gene	glycerophosphodiester phosphodiesterase domain containing 2
Gja1	NM_010288.3	43_Cx43, Cx43alpha1, expressed sequence AU042049, expressed sequence AW546267, Gja-1, MGD-MRK-10079, MGD-MRK-10085, MGI:2143760, MGI:2143856	gap junction protein, alpha 1
Gjb1	NM_008124.2	A118175, connexin 32, connexin-32, Cx32, expressed sequence A118175, Gjb-1, MGD-MRK-10091, MGD-MRK-10096, MGI:2147847	gap junction protein, beta 1
Gna15	NM_010304.3	G[a]15, Galpha15, MGD-MRK-10179	guanine nucleotide binding protein, alpha 15
Gpr183	NM_183031.2	Eh2, Epstein-Barr virus induced gene 2	G protein-coupled receptor 183
Gpr34	NM_011823.4		G protein-coupled receptor 34
Gpr62	NM_001159652.1	4933402E03RIK, MGI:1914001, RIKEN cDNA 4933402E03 gene	G protein-coupled receptor 62
Gpr84	NM_030720.1	EX33	G protein-coupled receptor 84
Grap	NM_027817.3	8430435N19RIK, BB233594, expressed sequence BB233594, MGI:2144614, RIKEN cDNA 8430435N19 gene	GRB2-related adaptor protein
Gria1	NM_001252403.1	1, GluA1, Glur1, Glur-1, GluR1, GluRA, GluR-A, glutamate receptor 1, glutamate receptor 1 (alpha 1), H1PA1, MGD-MRK-10128, MGD-MRK-10129, MGD-MRK-10140, MGD-MRK-10147, MGD-MRK-10246, MGI:1920245, MGI:2144316, MGI:95746, RIKEN cDNA 2900051M01	glutamate receptor, ionotropic, AMPA1 (alpha 1)
Gria2	NM_001039195.1	GluA2, Glur2, Glur-2, GluR2, GluR-B, glutamate receptor 2 (alpha 2), MGD-MRK-10141, MGD-MRK-10148, MGD-MRK-10247	glutamate receptor, ionotropic, AMPA2 (alpha 2)
Gria4	NM_001113180.1	Glur4, Glur-4, Gluralpha4, glutamate receptor 4, MGD-MRK-10143, MGD-MRK-10150, MGD-MRK-10249, MGI:3580137, spike wave 1, spkw1	glutamate receptor, ionotropic, AMPA4 (alpha 4)
Gria2a	NM_008170.2	GluN2A, GluRepsilon1, MGD-MRK-10258, NMDAR2A, NR2A	glutamate receptor, ionotropic, NMDA2A (epsilon 1)
Grin2b	NM_008171.3	AW490526, expressed sequence AW490526, GluN2B, GluRepsilon2, MGD-MRK-10259, MGD-MRK-12900, MGI:2141680, Nmdar2b, NMDAR2B, NR2B	glutamate receptor, ionotropic, NMDA2B (epsilon 2)
Grm2	NM_001160353.1	B, MGD-MRK-10265, MGI:1921233, MGI:95826, mGluR2, RIKEN cDNA 4930441L02 gene	glutamate receptor, metabotropic 2
Grm3	NM_181850.2	10266, MGI:1917596, MGI:95827, mGlu3, mGluR3, RIKEN cDNA 0710001G23 gene	glutamate receptor, metabotropic 3
Grn	NM_008175.3	acropitethelin, MGD-MRK-10272, PC cell-derived growth factor, Pgrn, progranulin	granulin
Gsn	NM_146120.3	MGD-MRK-10302	gelsolin
Gstm1	NM_010358.5	glutathione S-transferase Yb1 subunit, Gstm1, Gstm-1, MGD-MRK-10314, MGD-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	glutathione S-transferase, mu 1
Gzma	NM_010370.2	protein 1, expressed sequence AI553453, GZB, MGD-MRK-2219, MGD-MRK-2229, MGD-MRK-38312, MGI:2145670	granzyme A
Gzmb	NM_013542.2	histone, Hist5-2ax, histone 5 protein 2ax, MGD-MRK-19571, MGD-MRK-19591, MGI:2143303	granzyme B
H2afx	NM_010436.2	37b, 37c, H2T23, MGD-MRK-10439, MGD-MRK-10553, Qa1, Qa-1, Qaed	H2A histone family, member X
H2-123	NM_010398.3	MRK-10621, MGD-MRK-10622, MGI:1914626, MGI:2138791, RIKEN cDNA 2410071B14 gene	histocompatibility 2, T region locus 23
Hat1	NM_026115.4	receptor 109B, HM74, interferon-gamma inducible gene, Puma-g, niacin	histone aminotransferase 1
Hcar2	NM_030701.1	receptor 1, Niacr1, Pumag, PUMA-G	hydroxycarboxylic acid receptor 2
Hdac1	NM_008228.2	HD1, MGD-MRK-37123, MGI:3586542, modifier of murine metastable epialleles, expressed, MGD-MRK-36452, MGI:107875, Yy1bp, YY1 transcription factor binding protein	histone deacetylase 1
Hdac2	NM_008229.2	4932408F19RIK, AI047285, expressed sequence AI047285, MGI:3034516, RIKEN cDNA 4932408F19 gene	histone deacetylase 2
Hdac4	NM_207225.1	MG1:1343096, mHDA2, scurfy candidate 6, Sfc6	histone deacetylase 4
Hdac6	NM_010413.3	decarboxylase concentration (kidney), histidine decarboxylase estrogen response, structural (kidney), histidine decarboxylase testosterone response, L-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	histone deacetylase 6
Hdc	NM_008230.4	helicase, LysH, MGD-MRK-33900, MGD-MRK-33901, MGI:106208, MGI:1925121, MGI:2147507, PASG, proliferation-associated SNF2-like, RIKEN cDNA E130115I21 gene, YFK8	histidine decarboxylase
Hells	NM_008234.3	AA959795, bHLHe78, expressed sequence AA959795, HIF1alpha, HIF-1alpha, MGD-MRK-35379, MGI:2144750, MOP1	helicase, lymphoid specific
Hif1a	NM_010431.2	2310016C08RIK, AW049004, expressed sequence AW049004, MGI:2141637, RIKEN cDNA 2310016C08 gene	hypoxia inducible factor 1, alpha subunit
Hilpda	NM_023516.5	AA138857, expressed sequence N28177, Gm15797, MGD-MRK-16194, MGI:1098613, MGI:1858444, MGI:2146730, MGI:3833679, N28177, OTT MUG50000026264, predicted gene 15797, predicted gene, OTTMUG50000026264, Tuple1, T-up-like enhancer of split 1	hypoxia inducible lipid droplet associated
Hira	NM_010435.2	H1.3, H1D, H1F3, H1 histone family, member 3, H1s-4, MGD-MRK-36072	histone cell cycle regulator
Hist1h1d	NM_145713.3	amphoterin, DEF, high mobility group protein 1, Hmg1, HMG-1, MGD-MRK-	histone cluster 1, H1d
Hmgb1	NM_010439.3	DBWsu38e, DNA segment, Chr 8, Wayne State University 38, expressed, hemoxigenase, Hmox, HO1, HO-1, Hsp32, MGD-MRK-10800, MGD-MRK-34114, MGD-MRK-38247, MGI:106420, MGI:109203	high mobility group box 1
Hmox1	NM_010442.2	PSD-2ip45, Ves-1	heme oxygenase 1
Homer1	NM_147176.2	H-PGDS, prostaglandin D2 synthase 2, hematopoietic, prostaglandin D2 synthase, hematopoietic, Ptgds2	homer scaffolding protein 1
Hpgds	NM_019455.4	C81579, expressed sequence C81579, Hprt1, hypoxanthine guanine phosphoribosyl transferase 1, MGD-MRK-10922, MGI:2148073	hematopoietic prostaglandin D synthase
Hprt	NM_013556.2	2010205O06RIK, AU040608, BLOC-3, C130020P05RIK, expressed sequence AU040608, Hermansky Pudlak syndrome 4, Je, light ear, MGD-MRK-11779, MGI:1917520, MGI:2141078, MGI:96768, mKIAA1667, RIKEN cDNA 2010205O06 gene, RIKEN cDNA C130020P05 gene	hypoxanthine guanine phosphoribosyl transferase
Hps4	NM_138646.3	A1838259, BH3 interacting (with BCL2 family) domain, apoptosis agonist, Bid3, DP5, expressed sequence A1838259, MGI:2140973	HPS4, biogenesis of lysosomal organelles complex 3 subunit 2
Hrk	NM_007545.2	11beta-HSD-1, 11beta-hydroxysteroid dehydrogenase type 1, MGD-MRK-24447	harakiri, BCL2 interacting protein (contains only BH3 domain)
Hsd11b1	NM_008288.2	heat shock protein, 25 kDa, Hsp25, MGD-MRK-10954	hydroxysteroid 11-beta dehydrogenase 1
Hspb1	NM_013560.2		heat shock protein 1
Hus1	NM_008316.2		HUS1 checkpoint clamp component
Icam2	NM_010494.1	CD102, Icam-2, MGD-MRK-11147, MGD-MRK-11150	intercellular adhesion molecule 2
Ifi30	NM_023065.3	GIIT, IP30, lysosomal thio reductase IP30 precursor	interferon gamma inducible protein 30
Ifih1	NM_027835.2	9130009C22RIK, Helicard, MDA5, MDA-5, RIKEN cDNA 9130009C22 gene	interferon induced with helicase C domain 1
Ifitm2	NM_030694.1	fragilis3, Ifitm3, interferon induced transmembrane protein 3-like, mil-3	interferon induced transmembrane protein 2
Ifitm3	NM_025378.2	1110004C05RIK, Fgls, fragilis, IP15, mil-1, RIKEN cDNA 1110004C05 gene	interferon induced transmembrane protein 3
Ifnar1	NM_010508.1	Ifar, IFN-alpha/betaR, Ifrc, MGD-MRK-11211, MGD-MRK-11223, MGD-MRK-	interferon (alpha and beta) receptor 1
Ifnar2	NM_00110498.1	AI747302, expressed sequence AI747302, Ifnar-2, MGI:2146482	interferon (alpha and beta) receptor 2
Igf1	NM_00111274.1	C730016P09RIK, Igf-1, IGF-1, MGD-MRK-11226, MGD-MRK-11228, MGI:2444166, RIKEN cDNA C730016P09 gene	insulin-like growth factor 1
Igf1r	NM_010513.2	A330103N21RIK, CD221, hydrops fetalis, Hyft, IGF-1R, line 186, MGD-MRK-11229, MGI:1925023, MGI:3576016, RIKEN cDNA A330103N21 gene	insulin-like growth factor I receptor
Igf2r	NM_010515.1	MPR, M6P/IGF2R, mannose-6-phosphate receptor, cation independent, MGD-MRK-11231, MGI:2146909, Mpr300	insulin-like growth factor 2 receptor
Igfbp10	NM_001162884.1	sequence AA409708, expressed sequence AA536958, expressed sequence AI414626, MGI:2139569, MGI:2139590, MGI:2139693, RIKEN cDNA 6530405F15 gene	immunoglobulin superfamily, member 10
Igfbp6	NM_030691.1		immunoglobulin superfamily, member 6
Ikbkb	NM_010546.2	A1132552, expressed sequence A1132552, IKK2, IKK-2, IKK[b], IKKbeta, IKK-	inhibitor of kappaB kinase beta
Ikbke	NM_019777.3	AIW558201, expressed sequence AW558201, IKKepsilon, IKK-epsilon, MGI:2138621	inhibitor of kappaB kinase epsilon
Ikbkg	NM_178590.2	1110037D23RIK, AI848108, AI851264, AW124339, expressed sequence AI848108, expressed sequence AI851264, expressed sequence AW124339, IKK[g], MGI:1923574, MGI:2147920, MGI:2147925, MGI:2148001, NE MO, RIKEN cDNA 1110037D23 gene	inhibitor of kappaB kinase gamma

Il10rb	NM_008349.5	662040D04RIK,AI528744,CRF2-4,CRFb4,cytokine receptor family 2, member 4,D16H21558,D21558h,DNA segment, Chr 16, human D21558,expressed sequence AI528744,II10r2,MGD-MRK-38425,MGD-MRK-4247,MGD-MRK-5726,MGI:1918692,MGI:2146455,MGI:90448,RIKEN cDNA 662040D04 gene	interleukin 10 receptor, beta
Il15ra	NM_008358.2	AA690181,expressed sequence AA690181,MGD-MRK-26082,MGI:2138805	interleukin 15 receptor, alpha chain
Il1a	NM_010554.4	Il-1a,MGD-MRK-11351,MGD-MRK-11366	interleukin 1 alpha
Il1b	NM_008361.3	Il-1b,IL-1B,IL-1beta,MGD-MRK-11352,MGD-MRK-11367	interleukin 1 beta
Il1r1	NM_001123382.1	CD121a,II1r-1,IL-1R1,IL-1 receptor alpha chain,IL-1R,MGD-MRK-11369,MGD-	interleukin 1 receptor, type I
Il1r2	NM_010555.4	CD121b,II1r-2,IL-1 receptor beta chain,MGD-MRK-11370,MGD-MRK-11372 sequence AV239853,IL-1RAcP,IL-1R AcP,MGD-MRK-31048,MGI:2146394,MGI:2146602,MGI:2441718,RIKEN cDNA 6430709H04 gene	interleukin 1 receptor, type II
Il1rap	NM_134103.2	AI481289,AW551444,expressed sequence AI481289,expressed sequence AW551444,MGI:2138277,MGI:2138611	interleukin 1 receptor accessory protein
Il1r2	NM_133193.3	AW551444,MGI:2138277,MGI:2138611	interleukin 1 receptor-like 2
Il1rm	NM_031167.5	F630041P17RIK,IL-1ra,IL-1RA,MGD-MRK-11373,MGI:2443250,RIKEN cDNA	interleukin 1 receptor antagonist
Il21r	NM_021887.1	NLR	interleukin 21 receptor
Il2rg	NM_013563.3	CD132,common cytokine receptor gamma chain,common gamma chain,gamma(c),gammaE,gamma C receptor,gc-1j1c,MGD-MRK-11378	interleukin 2 receptor, gamma chain
Il3	NM_010556.4	BPA,colony stimulating factor, multi (contains II-3),Csfmu,HCGF,II-3,MCGF,MGD-MRK-11354,MGD-MRK-11379,MGD-MRK-2193,PSF	interleukin 3
Il3ra	NM_008369.1	CD123,IL-3 receptor alpha chain,MGD-MRK-11381,SUT-1	interleukin 3 receptor, alpha chain
Il6ra	NM_010559.2	CD126,Il6r,IL-6R,IL-6 receptor alpha chain,Interleukin 6 receptor,MGD-MRK-35823,MGI:2138207,SHIP,SHIP1,SHIP-1,Src homology 2 domain-containing	interleukin 6 receptor, alpha
Inpp5d	NM_001110192.1	inositol-5-phosphatase,s.SHIP	inositol polyphosphate-5-phosphatase D
Iqsec1	NM_001134383.1	clone 3-40,cI-43,D6Ertd349e,DNA segment, Chr 6, ERATO Doi 349, expressed,MGI:1930797,MGI:2446231	IQ motif and Sec7 domain 1
Irak1	NM_008363.2	associated kinase,IRAK-1,MGD-MRK-35890,MGI:2147821,mPLK,pelle-like protein kinase,Plpk	interleukin-1 receptor-associated kinase 1
Irak2	NM_00113553.1	2,Irak2a,Irak2b,Irak2c,Irak2d,Irak2e,IRAK-2,MGI:2141461,RIKEN cDNA 6330415L08 gene	interleukin-1 receptor-associated kinase 2
Irak3	NM_028679.3	4833428C18RIK,AI563835,expressed sequence AI563835,IRAK- M,MGI:2143647,RIKEN cDNA 4833428C18 gene	interleukin-1 receptor-associated kinase 3
Irak4	NM_029926.5	8430405M07RIK,9330209D03RIK,IRAK-4,MGI:1918735,MGI:1924812,NY-REN-64,RIKEN cDNA 8430405M07 gene,RIKEN cDNA 9330209D03 gene	interleukin-1 receptor-associated kinase 4
Irf1	NM_008390.1	AU020929,expressed sequence AU020929,Irf-1,MGD-MRK-11464,MGD-MRK-9830146E22RIK,AI646973,expressed sequence AI646973,Irf-2,MGD-MRK-11466,MGI:2142602,MGI:2443654,RIKEN cDNA 9830146E22 gene	interferon regulatory factor 1
Irf2	NM_008391.2	C920001K05RIK,Irf-3,MGI:2441924,RIKEN cDNA C920001K05 gene	interferon regulatory factor 2
Irf3	NM_016849.4	AI835587,expressed sequence AI835587,Irf-4,MGD-MRK-29048,MGI:104895,MGI:2145221,Sp11/PU.1 interaction partner,Spip	interferon regulatory factor 3
Irf4	NM_013674.1	AI835587,expressed sequence AI835587,Irf-4,MGD-MRK-29048,MGI:104895,MGI:2145221,Sp11/PU.1 interaction partner,Spip	interferon regulatory factor 4
Irf6	NM_016851.2	AI876454,E230028I05RIK,expressed sequence AI876454,MGI:2138372,MGI:2443238,RIKEN cDNA E230028I05 gene	interferon regulatory factor 6
Irf7	NM_016850.2	AI876454,E230028I05RIK,expressed sequence AI876454,MGI:2138372,MGI:2443238,RIKEN cDNA E230028I05 gene	interferon regulatory factor 7
Irf8	NM_008320.3	sequence binding protein 1,Irf-8,MGD-MRK-11151,MGI:2142648,MGI:3574547,myeloproliferative syndrome,MyIs	interferon regulatory factor 8
Islr2	NM_001161538.1	B930052A04RIK,ILIN,mbu-3,mKIAA1465,RIKEN cDNA B930052A04 gene	immunoglobulin superfamily containing leucine-rich repeat 2
Iltga6	NM_008397.3	503940I005RIK,AI115430,Cd49f,expressed sequence AI115430,MGD-MRK-11484,MGI:1923212,MGI:2138837,RIKEN cDNA 503940I005 gene	integrin alpha 6
Itpa7	NM_008398.2	[a7]_alpha7,MGD-MRK-119604	integrin alpha 7
Itgam	NM_001082960.1	alpha, complement receptor type 3,CR3,F730045I24RIK,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 F730045I24 gene	integrin alpha M
Itgav	NM_008402.2	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 V
Itgax	NM_021334.2	A1449405,Cd11c,CD11C (p150) alpha polypeptide,expressed sequence A1449405,MGD-MRK-11488,MGI:2141963	integrin alpha X
Itgbb5	NM_001145884.1	AA475909,AI874634,[b]5,[b]5,[b]5A,[b]5B,beta5,beta-5,EST AA475909,ESTM23,expressed sequence AI874634,expressed sequence tag mouse EST 23,MGD-MRK-11493,MGI:1201382,MGI:2146516	integrin beta 5
Jag1	NM_013822.2	2,headturner,Headturner,Htu,MGI:1891333,MGI:2664252,MGI:3530800,Ozz,ozzy,Serrate-1	jagged 1
Jam2	NM_023844.4	AU016127,JAM-2,Jcam2,junction cell adhesion molecule 2,MGI:1914168,MGI:1924075,MGI:2146545,RIKEN cDNA 2410030G21 gene,RIKEN cDNA 2410167M24 gene,VE-JAM sequence AU045941,expressed sequence C79929,expressed sequence C79931,Jmj,jumonji,MGD-MRK-	junction adhesion molecule 2
Jarid2	NM_021878.2	28107,MGI:2139495,MGI:2145204,MGI:2145380,MGI:2145512	jumonji, AT rich interactive domain 2
Jun	NM_010591.2	c-jun,Junc,jun-C oncogene,MGD-MRK-11538,MGD-MRK-11540 general control of amino acid synthesis-like 2 (yeast),Gcn52,general control of amino acid synthesis-like 2 (yeast),MGI:1924162,MGI:2144513,PCAF-B/GCN5,RIKEN cDNA 1110051E14 gene	jun proto-oncogene
Kat2a	NM_020004.5	A1461839,expressed sequence AW536563,MGI:2146869,MGI:2147070,MGI:2445128,p300/CBP-associated factor,Pcaf,RIKEN cDNA A930006P13 gene	K(lysine) acetyltransferase 2A
Kat2b	NM_020005.3	1110037K09RIK,Kaa2-1,Kc++ channel, A current, subtype 2, gene 1 [Drosophila Shal homolog],Kva-1,MGD-MRK-11557,MGD-MRK-11575,MGD-MRK-14398,MGI:1915989,mShal1,RIKEN cDNA 1110037K09 gene,Shal	K(lysine) acetyltransferase 2B
Kcnd1	NM_008423.1	BR110,RIK-1,Kir1.2,Kir4.1	potassium voltage-gated channel, Shal-related family, member 1
Kcnj10	NM_010193948.1	B8085247,expressed sequence B8085247,F730021E22RIK,gene model 1570,(NCBI) gene model 1685,(NCBI),Gm1570,Gm1685,LOC380778,LOC381712,MGI:2145065,MGI:2686416,MGI:2686531,RIKEN cDNA F730021E22 gene	potassium inwardly-rectifying channel, subfamily J, member 10
Kcnk13	NM_146037.1	2,Aof2,D4Ertd478e,DNA segment, Chr 4, ERATO Doi 478, expressed,expressed sequence AA408884,Kdm1a,LSD1,lysine (K)-specific demethylase	potassium channel, subfamily K, member 13
Kdm1a	NM_133872.1	1,MGI:1917041,MGI:2140140,mKIAA0601,RIKEN cDNA 1810043O07 gene	lysine (K)-specific demethylase 1A
Kdm1b	NM_172262.3	4632428N09RIK,AI482520,amine oxidase, flavin containing 1,Aof1,expressed sequence AI482520,LSD2,RIKEN cDNA 4632428N09 gene	lysine (K)-specific demethylase 1B
Kdm2a	NM_001001984.2	AA589516,expressed sequence AW536790,Fbi7,F-box and leucine-rich repeat protein 11,Fbxl11,Gm4560,Jhdm1a,Ialina,MGI:1918681,MGI:2147454,MGI:2147738,MGI:3782744,predicted gene,100043628,predicted gene 4560,RIKEN cDNA Cxxc2,F-box and leucine-rich repeat protein 10,Fbxl10,Jhdm1b,mKIAA3014	lysine (K)-specific demethylase 2A
Kdm2b	NM_001003953.1	1,jumonji domain containing 1A,MGD-MRK-15272,MGI:1920820,MGI:2444882,mKIAA0742,RIKEN cDNA 1700105C21 gene,RIKEN cDNA C230043E16 gene,testis specific gene A,Tsga	lysine (K)-specific demethylase 2B
Kdm3a	NM_001038695.2	5830462I21RIK,JHDM2B,Jmjd1b,jumonji domain containing 1B,mKIAA1082,RIKEN cDNA 5830462I21 gene	lysine (K)-specific demethylase 3A
Kdm3b	NM_001081256.1	expressed,JHDM3A,Jmjd2,jumonji domain containing 2,jumonji domain containing 2A,MGC:28562,MGI:1098782,mKIAA0677	KDM3B lysine (K)-specific demethylase 3B
Kdm4a	NM_172382.2	4732474L06RIK,Jmjd2b,jumonji domain containing 2B,MGC:6349,mKIAA0876,RIKEN cDNA 4732474L06 gene	lysine (K)-specific demethylase 4A
Kdm4b	NM_172132.1	2410141F18RIK,AA517467,expressed sequence AA517467,jmjd2c,jumonji domain containing 2C,MGI:2140158,RIKEN cDNA 2410141F18 gene	lysine (K)-specific demethylase 4B
Kdm4c	NM_144787.1	Jmjd2d,jumonji domain containing 2D	lysine (K)-specific demethylase 4C
Kdm4d	NM_173433.2	AA409370,Jarid1a,jumonji, AT rich interactive domain 1A (Rbp2 like),MGC:11659,MGI:1353553,MGI:2141364,Rbp2,RBP2,retinoblastoma binding protein 2	lysine (K)-specific demethylase 4D
Kdm5a	XR_377436.1	ERATO Doi 202, expressed, expressed sequence AW556288,Jarid1b,jumonji, AT rich interactive domain 1B (Rbp2 like),MGI:1098818,MGI:1917371,MGI:2138618,Plu1,PLU-1,putative DNA/chromatin binding motif 1,Rb-Bp2,RIKEN cDNA 2010009J12 gene,RIKEN D930009K15RIK,Jarid1c,jumonji, AT rich interactive domain 1C (Rbp2 like),MGD-MRK-16567,MGI:3026968,mKIAA0234,RIKEN cDNA D930009K15 gene,selected mouse cDNA on the X,Smxc	lysine (K)-specific demethylase 5A
Kdm5b	NM_152895.2	lysine (K)-specific demethylase 5B	lysine (K)-specific demethylase 5B
Kdm5c	NM_013668.3	lysine (K)-specific demethylase 5C	lysine (K)-specific demethylase 5C

Kdm5d	NM_011419.3	HY, Jarid1d, jumonji, AT rich interactive domain 1D (Rbp2 like), MGD-MRK-16566, selected mouse cDNA on the Y, Smcy	lysine (K)-specific demethylase 5D
Kdm6a	NM_009483.1	ubiquitously transcribed tetratricopeptide repeat gene, X chromosome, Utx 4930402F02Rik, EST X83316, MGC:11883, MGD-MRK-28119, MGI:104825, RIKEN cDNA 4930402F02.gene, X83316	lysine (K)-specific demethylase 6A
Kif2c	NM_134471.3		kinesin family member 2C
Kir3dl1	NM_177749.3	Kir1.LOC245615	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 1
Kir3dl2	NM_177748.2	Kir2.LOC245615	killer cell immunoglobulin-like receptor, three domains, long cytoplasmic tail, 2
Kit	NM_001122733.1	spotting, Fdc, Gsfco1, Gsfco5, Gsfow3, gsf spotted coat 1, gsf 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 Si or W 3, SC01, SC05, SOW3, spotted sterile male, Ssm, Steel Factor Receptor, Tr-Kit, W	KIT proto-oncogene receptor tyrosine kinase
Kirb1	NM_001099918.1	100043861, 4930431A04Rik, Gm4696, Ly55, Ly-55, lymphocyte antigen 55, MGD-MRK-11998, MGD-MRK-12041, MGI:1914651, MGI:3782876, Nkrp1g, predicted gene, 100043861, predicted gene 4696, RIKEN cDNA 4930431A04.gene	killer cell lectin-like receptor subfamily B member 1
Kircl1	NM_010654.2	CD94	killer cell lectin-like receptor, subfamily D, member 1
Kirkl2	NM_001083322.1	D6H1252489E.DNA Segment, Chr 6, human D12S2489E, Nkg2d, NKG2-D acute lymphocytic leukemia, ALL ALL-1, Cxcr7, HTRX1, MGD-MRK-12254, MGD-MRK-1281, Mll, Mll1, myeloid/lymphoid or mixed-lineage	killer cell lectin-like receptor subfamily K, member 1
Kmt2a	NM_001081049.1	leukemia, myeloid/lymphoid or mixed-lineage leukemia 1, trithorax Drosophila E330008K23Rik, HALR, mKIAA1506, Mli3, myeloid/lymphoid or mixed-lineage	lysine (K)-specific methyltransferase 2A
Kmt2c	NM_001081383.1	leukemia 3, RIKEN cDNA E330008K23.gene	lysine (K)-specific methyltransferase 2C
Lacc1	NM_172488.2	9030625A04Rik, RIKEN cDNA 9030625A04.gene	laccase (multicopper oxidoreductase) domain containing 1
Lag3	NM_008479.1	CD223, LAG-3, Ly66, lymphocyte antigen 66, MGD-MRK-35044	lymphocyte-activation gene 3
Lair1	NM_001113474.1	Women's Genetics 0421 expressed, expressed sequence BB115266, Lair-1, MGD-MRK-33164, MGI:1918474, MGI:2142289, m Lair-1, RIKEN cDNA 5133400011.gene	leukocyte-associated Ig-like receptor 1
Lamp1	NM_010684.2	A1196048, CD107a, expressed sequence A1196048, Lamp-1, MGD-MRK-11740, MGD-MRK-11742, MGI:2142479, Perk	lysosomal-associated membrane protein 1
Lamp2	NM_001017959.1	CD107b, Lamp-2, Lamp-2a, Lamp-2b, Lamp-2c, Mac3, MGD-MRK-11741, MGD-24p3, AW212229, expressed sequence AW212229, MGD-MRK-11759, MGI:2139327, neu-related lipocalin, NGAL, NRL	lysosomal-associated membrane protein 2
Lcn2	NM_008491.1	I7R2, lactate dehydrogenase-A, Ldh1, Ldh-1, LDH-A, lethal, Chr 7, Oak Ridge	lipocalin 2
Ldha	NM_010699.2	2, MGD-MRK-11762, MGD-MRK-11768, MGI:1890511	lactate dehydrogenase A
Ldfrad3	NM_178886.2	A1194318, expressed sequence A1194318, Lrad3	low density lipoprotein receptor class A domain containing 3
Lfng	NM_008494.3	AW061165, expressed sequence AW061165, lunatic fringe, MGI:2141150	LFNG O-fucosylpeptide 3-beta-N-acetylglucosaminyltransferase
Lgmn	NM_011175.3	AEP, A746452, AU022324, expressed sequence A746452, expressed sequence AU022324, MGI:2144882, MGI:2144957, preprotease, cysteine, 1, Prsc1	legumain
Lig1	NM_001083188.1	AL033288, expressed sequence AL033288, Lig1, MGD-MRK-CD85k, glycoprotein 49 B, Gp49b, HM18, ILT3, leukocyte immunoglobulin-like receptor, subfamily B, member 4, Lirb4, MGD-MRK-19605	ligase I, DNA, ATP-dependent
Lirb4a	NM_013532.3	4930471K13Rik, AV148400, expressed sequence AV148400, LERN1, leucine rich repeat neuronal 6A, leucine rich repeat neuronal 6A, LINGO-	leukocyte immunoglobulin-like receptor, subfamily B, member 4A
Lingo1	NM_181074.4	1, Lrrn6a, MGI:3034974, RIKEN cDNA 4930471K13.gene, UNQ201	leucine rich repeat and Ig domain containing 1
Lmna	NM_001020111.2	Dhe, dishevelled hair and ear, lamin A/C, MGD-MRK-11818, MGI:2156104	lamin A
Lmnb1	NM_010721.2	MGD-MRK-11819	lamin B1
Lrg1	NM_029796.2	130000803Rik, 2310031E04Rik, Lrhg, MGI:1916869, RIKEN cDNA 130000803.gene, RIKEN cDNA 2310031E04.gene	leucine-rich alpha-2-glycoprotein 1
Lrrc25	NM_153074.3	Mapa, monocyte and plasmacytoid activated molecule	leucine rich repeat containing 25
Lrrc3	NM_145152.4	1300011104Rik, MGI:1919013, RIKEN cDNA 1300011104.gene	leucine rich repeat containing 3
Lsr	NM_001164184.1	ILDR3, Lisch7, liver-specific bHLH-Zip transcription factor	lipolysis stimulated lipoprotein receptor
Lst1	NM_010734.2	B144	leukocyte specific transcript 1
Lta	NM_010735.2	alpha, Ltx, lymphotoxin, lymphotoxin alpha, MGD-MRK-11928, MGD-MRK-15153, MGD-MRK-28089, MGI:3575121, Tnfb, TNF beta, TNF-beta, Tnfsf1b, tumor necrosis factor beta	lymphotoxin A
Ltb	NM_008518.2	16192, MGD-MRK-28088, MGI:2146913, p33, Tnfc, Tnfsf3, tumor necrosis factor C	lymphotoxin B
Ltrb	NM_010736.3	receptor, lymphotoxin A receptor, MGD-MRK-19752, MGD-MRK-28148, MGD-MRK-28175, MGI:104851, MGI:2141385, MGI:893576, Tnfr, TNFR, TNFR2-RP, TNF receptor-related protein, TNF-R-III, TNFR1p, Tnfsf3, tumor necrosis factor beta receptor, tumor necrosis factor receptor 3, tumor necrosis factor receptor superfamily, member 3	lymphotoxin B receptor
Ltc4s	NM_008521.1	MGD-MRK-36066	leukotriene C4 synthase
Ly6a	NM_010738.2	Ly-6A, 2, Ly-6A/E, Ly-6E, 1, MGD-MRK-36097, Sca-1, Sca-1, TAP	lymphocyte antigen 6 complex, locus A
Ly6g	XM_909927.2	Gr-1, Gr-1, Ly-6G, MGD-MRK-38485	lymphocyte antigen 6 complex, locus G
Ly9	NM_008534.2	A1893573, CD229, expressed sequence A1893573, Lgp100, Ly-9, MGD-MRK-12008, MGD-MRK-12051, MGI:2138373, SLAMF3, T100	lymphocyte antigen 9
Lyn	NM_010747.1	2, MGD-MRK-10668, MGD-MRK-12071, MGI:2140321, Yamaguchi sarcoma viral (v-yes-1) oncogene homolog	LYN proto-oncogene, Src family tyrosine kinase
Mafb	NM_010658.2	kr, kreisler, Kreisler, kreisler (maf-related) leucine zipper protein, Krml, MGD-MRK-11595, MGD-MRK-25987	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)
Maff	NM_010755.3	MGD-MRK-12102	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein F (avian)
Mag	NM_010758.2	Gma, MGD-MRK-10172, MGD-MRK-12105, siglec-4a	myelin-associated glycoprotein
Mai1	NM_001171187.1	VIP17	myelin and lymphocyte protein, T cell differentiation protein
Man2b1	NM_010764.2	AW107687, expressed sequence AW107687, lysosomal alpha-mannosidase, MGD-MRK-35751, MGI:2142759	mannosidase 2, alpha B1
Map1lc3a	NM_025735.1	1010001H21Rik, 4922501H04Rik, LC3, LC3a, MGI:1913984, RIKEN cDNA 1010001H21.gene, RIKEN cDNA 4922501H04.gene	microtubule-associated protein 1 light chain 3 alpha
Map2k1	NM_008927.3	MAP kinase kinase 1, Mek1, MGD-MRK-19441, MGD-MRK-19443, MGI:102562, Prkml1, protein kinase, mitogen activated, kinase 1, p45	mitogen-activated protein kinase kinase 1
Map2k4	NM_009157.4	JNKK1, MGD-MRK-35660, MGI:107199, MKK4, SAPK/Erk/kinase 1, Sek1, Serk1	mitogen-activated protein kinase kinase 4
Map3k1	NM_011945.2	Ig, Mek, MEK1, MEK kinase, MGD-MRK-28141, MGI:104845	mitogen-activated protein kinase kinase kinase 1
Map3k14	NM_016896.3	aly, alymphoplasia, MGD-MRK-18699, MGI:101874, Nfkb inducing kinase, Nik 36125, MGI:107554, MGI:2442453, p493F12, RIKEN cDNA C230008H04	mitogen-activated protein kinase kinase kinase 14
Mapk10	NM_001081567.1	gene, SAPK/Erk/kinase 2, Serk2	mitogen-activated protein kinase 10
Mapk12	NM_013871.3	AW123708, Erk6, expressed sequence	mitogen-activated protein kinase 12
Mapk14	NM_011951.2	inflammatory drug binding protein 1, MGD-MRK-2145, MGI:1338028, MGI:88502, Mxi2, p38, p38a, p38alpha, p38 alpha, p38-alpha, p38MAPK, p38 MAPK, p38 MAP Kinase, p38 MAP kinase alpha	mitogen-activated protein kinase 14
Mapt	NM_001038609.2	AW045860, MGD-MRK-12590, MGD-MRK-14720, MGI:2144146, MGI:2144478, Mtapt, Tau	microtubule-associated protein tau
Marco	NM_010766.2	A1323439, expressed sequence A1323439, MGI:2138205, Scara2	macrophage receptor with collagenous structure
Mavs	NM_144888.2	D430028G21Rik, IPS-1, RIKEN cDNA D430028G21.gene	mitochondrial antiviral signaling protein
Mab21d1	NM_173386.4	C6s, E330016A19Rik, RIKEN cDNA E330016A19.gene	Mab-21 domain containing 1
Mbd2	NM_010773.2	MBD2a	methyl-CpG binding domain protein 2
Mbd3	NM_013595.2	A1181826, AU019209, expressed sequence A1181826, expressed sequence AU019209, MGI:2143531, MGI:2143734	methyl-CpG binding domain protein 3
Mcm2	NM_008564.2	sequence AW476101, Mcdm2, MGD-MRK-33049, MGI:2141373, MGI:2144533, mini chromosome maintenance deficient 2 (S. cerevisiae), mKIAA0030	minichromosome maintenance complex component 2
Mcm5	NM_008566.2	cerevisiae, expressed sequence AA617332, expressed sequence A1324988, expressed sequence AL033333, mCD46, Mcdm5, MGD-MRK-24065, MGI:2142437, MGI:2142508, MGI:2142670, mini chromosome maintenance deficient 5 (S. cerevisiae)	minichromosome maintenance complex component 5
Mcm6	NM_008567.1	expressed, Mcdm6, MGD-MRK-34267, MGI:106573, mini chromosome maintenance deficient 6 (S. cerevisiae)	minichromosome maintenance complex component 6
Mdc1	NM_001010833.2	AA413496, expressed sequence AA413496, MGI:3035026, NFB1 12169, MGD-MRK-12172, MGI:1916580, MGI:2143477, RIKEN cDNA 1700007115.gene	mediator of DNA damage checkpoint 1
Mdm2	NM_010786.4	1700007115.gene	transformed mouse 3T3 cell double minute 2
Mef2c	NM_001170537.1	5430401D19Rik, 9930028G15Rik, AV011172, expressed sequence AV011172, MGD-MRK-16227, MGI:1918600, MGI:2145387, MGI:2443757, RIKEN cDNA 5430401D19.gene, RIKEN cDNA 9930028G15.gene	myocyte enhancer factor 2C
Merik	NM_008587.1	c-mer proto-oncogene, EYK, Mer, MGD-MRK-12199, MGI:2651818, neuroscience mutagenesis facility, 12, nmf12, Nyk, Tyro 12	c-mer proto-oncogene tyrosine kinase
Mfge8	NM_008594.2	sequence A1325141, lactadherin, MFG-E8, Mfge8, MGD-MRK-19675, MGI:2141815, MGI:2141915, SED1	milk fat globule-EGF factor 8 protein

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
Mmp12	NM_008605.3	AV378681,expressed sequence AV378681,macrophage elastase,macrophage metalloelastase,MGD-MRK-12275,MGI:2143275,Mmel,MMP12	matrix metalloproteinase 12
Mmp14	NM_008608.3	A1325305,expressed sequence A1325305,Membrane type 1-MMP,MGD-MRK-18727,MGI:2145621,MGI:3717409,MT1-MMP,sabe,small and bugged-eyed A1839848,expressed sequence R74645,MGD-MRK-	matrix metalloproteinase 14 (membrane-inserted)
Mobp	NM_001039364.2	37555,MGI:2143124,MGI:2143130,MGI:2143445,MOBP155,R74645	myelin-associated oligodendrocytic basic protein
Mog	NM_010814.2	B230317G11RIK,MGD-MRK-13032,MGI:2443229,RIKEN cDNA B230317G11	myelin oligodendrocyte glycoprotein
Mpeg1	NM_010821.1	Mpg-1,MPS1	macrophage expressed gene 1
Mpg	NM_010822.3	glycosylase,APNG,expressed sequence A1326268,MGD-MRK-12404,MGD-MRK-19564,MGI:2144133,Mid1	N-methylpurine-DNA glycosylase
Mr1	NM_008209.4	H2L2,histocompatibility-2 complex class I-like sequence,MR1	major histocompatibility complex, class I-related
Mre11a	NM_018736.2		MRE11A homolog A, double strand break repair nuclease
Msa1a1	NM_007641.5	AA96061,Cd20,CD20 antigen,expressed sequence AA96061,Ly-44,Iymphocyte antigen 44,MGD-MRK-11986,MGD-MRK-1838,MGI:2147465	membrane-spanning 4-domains, subfamily A, member 1
Msa2	NM_001276330.1	Fce1b,Fc epsilon high affinity receptor beta,Fcer1b,FcRb,FcRbeta,Fc receptor, IgE, high affinity I, beta polypeptide,MGD-MRK-9725,MGD-MRK-9729	membrane-spanning 4-domains, subfamily A, member 2
Msa4a4	XM_003086124.1	EG666907,predicted gene,EG666907	membrane-spanning 4-domains, subfamily A, member 4A
Msh2	NM_008628.2	A1788990,expressed sequence A1788990,MGD-MRK-18634,MGI:2146922	mutS homolog 2
Msn	NM_010833.2	C78546,expressed sequence C78546,MGD-MRK-12566,MGI:2148057	moesin
Msr1	NM_001113326.1	MGD-MRK-14331,MRS-A,MSR-A,Scara1,scavenger receptor,Scvr,SR,Al,SR-All	macrophage scavenger receptor 1
Mvp	NM_008638.2	231009M24RIK,LRP,RIKEN cDNA 231009M24 gene,VAULT1	major vault protein
Myc	NM_010849.4	12736,MGI:2146128,Myc2,Niard,Nird,non-immunoglobulin rearranging DNA sequence	myelocytomatosis oncogene
Myc11	NM_026793.2	sequence A1642973,MGI:2143542,MGI:2143656,Mtmc1,MT-MC1,RIKEN cDNA	myc target 1
Mycd88	NM_010851.2	1110020B04 gene	myeloid differentiation primary response gene 88
Myf6	NM_001033481.1	MGD-MRK-37039	
Nbn	NM_013752.3	(NCBI),Gm1804,Gm98,LOC225908,LOC386531,MGI:2686650,predicted gene	myelin regulatory factor
Ncap	NM_144818.3	98	nibrin
Ncaph	NM_144818.3	A730011O11RIK,barren homolog (Drosophila),Brrn1,HCAP-H,mKIAA0074,RIKEN cDNA A730011O11 gene	non-SMC condensin I complex, subunit H
Ncf1	NM_001286037.1	neutrophil cytosolic factor 1,MGD-MRK-12789,MGD-MRK-12792,NADPH oxidase subunit (47kDa),Ncf-1,NOX2,p47phox,p47-phox>24052,MGI:103184,MGI:2441784,MGI:2444535,mKIAA1047,N-CoR,retinoid X receptor interacting protein 13,RIKEN cDNA 5730405M06 gene,RIKEN cDNA A230020K14 gene,Rxrip13	neutrophil cytosolic factor 1
Ncor1	NM_011308.2		nuclear receptor co-repressor 1
Ncor2	NM_011424.2	SMRT,SMRTE	nuclear receptor co-repressor 2
Ncr1	NM_010746.3	Ly94,Iymphocyte antigen 94,MAR1 (mouse activating receptor 1),Nkp46	natural cytotoxicity triggering receptor 1
Nefl	NM_010910.1	A1847934,CMT2E,expressed sequence A1847934,MGD-MRK-	neurofilament, light polypeptide
Nfe2l2	NR_132727.1	A1194320,expressed sequence A1194320,MGD-MRK-37463,MGI:2138857,Nrf2	nuclear factor, erythroid derived 2, like 2
Nfkb1	NM_008689.2	MGD-MRK-12829,NF-kappaB,NF-kappaB p50,nuclear factor kappaB p50,p50,p105,p105,p50 subunit of NF kappaB	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105
Nfkb2	NM_019408.2	NF kappaB2,p52	nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100
Nfkb3	NM_010907.2	kappaBalpha,IkappaB(alpha),MGD-MRK-12830,MGD-MRK-28032,MGI:2144835,Nrkb1,nuclear factor of kappa light chain gene enhancer in B-cells inhibitor	nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, alpha
Nfkb5	NM_008690.3		nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor, beta
Ngf	NM_00112698.1	MGD-MRK-12840, beta,Ngfb	nerve growth factor
Ngfr	NM_033217.3	LNFR,MGD-MRK-12842,p75,p75 neurotrophin	nerve growth factor receptor (TNFR superfamily, member 16)
Ninj2	NM_016718.2		ninjurin 2
Nkg7	NM_024253.4	2500004F03RIK,MGI:1919560,RIKEN cDNA 2500004F03 gene	natural killer cell group 7 sequence
Nlgn1	NM_138666.3	B1179718,MGI:1918002,MGI:2140030,mKIAA1070,NL1,Nlg1,RIKEN cDNA	neuroligin 1
Nlgn2	NM_198862.2	6330415N05 gene	neuroligin 2
Nlrp3	NM_145827.3	MGC:67386,NL2	NLR family, pyrin domain containing 3
Nod1	NM_172729.2	C1as1,cold autoinflammatory syndrome 1 homolog	
Nostrin	NM_181547.3	Card4,caspase recruitment domain	nucleotide-binding oligomerization domain containing 1
Npl	NM_028749.1	4,F830007N14RIK,MGI:2443700,Nlrc1,RIKEN cDNA F830007N14 gene	nitric oxide synthase trafficker
Npnt	NM_001029836.1	Daij2,mDaij2	N-acetylneuraminate pyruvate lyase
Nptx1	NM_008730.2	0610033B02RIK,RIKEN cDNA 0610033B02 gene	nephronectin
Nqo1	NM_008706.5	AA682063,expressed sequence A1314031,MGI:1915250,MGI:2139604,MGI:2139662,POEM,RIKEN cDNA D11Bwg1004e,DNA segment, Chr 11, Brigham & Women's Genetics 1004 expressed,MGD-MRK-34057,MGD-MRK-36388,Np1	neuronal pentraxin 1
Nrgn	NM_022029.2	sequence AV001255,menadiene oxidoreductase 1,MGD-MRK-13090,MGD-MRK-13092,MGD-MRK-19559,MGD-MRK-24055,MGI:2142727,NAD(P)H dehydrogenase (quinone),NAD(P)H menadiene oxidoreductase 1, dioxin inducible,NMO1,Nmor1,NQO1,Ox1,Ox-1,QR1	NAD(P)H dehydrogenase, quinone 1
Nrm	NM_134122.2	R75334,MGD-MRK-16623,MGI:1915658,MGI:2143128,MGI:2143450,MGI:99834,NG,NG/RC3,post synaptic spine 1,protein kinase C substrate,Ps1,R75334,RC3,RIKEN cDNA	neurogranin
Nrp2	NM_001077403.1	2610307M02RIK,A1429796,expressed sequence A1429796,MGI:1919775,RIKEN cDNA 2610307M02 gene	neurin (nuclear envelope membrane protein)
Nthl1	NM_008743.2	1110048P06RIK,MGI:1916002,NP2,NP-2,Npn2,Npn-2,RIKEN cDNA	neuropilin 2
Nwd1	NM_176940.5	Nth1	nth (endonuclease III)-like 1 (E coli)
Oas1g	NM_011852.2	A230063L24RIK,RIKEN cDNA A230063L24 gene	NACHT and WD repeat domain containing 1
Ogg1	NM_010957.4	A1449562,L2,MGD-MRK-13023,MGD-MRK-13025,MGI:2140890,Mmu-L2,Oas1a,Oas1,Oas1-	2'-5' oligoadenylate synthetase 1G
Olfml3	NM_133859.2	Mmh	8-oxoguanine DNA-glycosylase 1
Opalin	NM_153520.1	sequence AW550633,HNOEL-iso,MGI:2139624,MGI:2140002,mONT3,ONT3,RIKEN cDNA 2810002E22 gene	olfactomedin-like 3
Optrn	NM_181848.4	Tmem10,Tmp10,transmembrane protein 10	oligodendrocytic myelin paranodal and inner loop protein
Osgin1	NM_027950.1	4930441O07RIK,RIKEN cDNA 4930441O07 gene,TFIIIA-INTP	optineurin
Osmr	NM_011019.3	1700012B18RIK,RIKEN cDNA 1700012B18 gene	oxidative stress induced growth inhibitor 1
P2rx7	NM_001038839.2	OSMRB	oncostatin M receptor
P2ry12	NM_027571.3	A1467586,expressed sequence A1467586,MGI:2140909,P2X(7),P2X7R,P2X7	purinergic receptor P2X, ligand-gated ion channel, 7
Pacsin1	NM_011861.3	2900079B22RIK,4921504D23RIK,MGI:1920308,P2Y12,RIKEN cDNA	purinergic receptor P2Y, G-protein coupled 12
Padi2	NM_008812.2	2900079B22 gene,RIKEN cDNA 4921504D23 gene	protein kinase C and casein kinase substrate in neurons 1
Pak1	NM_011035.2	A830061D09RIK,MGI:2444712,mKIAA1379,RIKEN cDNA A830061D09	peptidyl arginine deiminase, type II
Parp1	NM_007415.2	MGD-MRK-13221,MGI:97534,mKIAA0994,PAD type II,Pdi,Pdi2,peptidyl activated protein kinase alpha,AWO45634,expressed sequence AW045634,MGI:1203486,MGI:2142185,PAK-1,Paka	p21 protein (Cdc42/Rac)-activated kinase 1
Parp2	NM_009632.2	1,Adprp,Adprt1,A1893648,C80510,expressed sequence A1893648,expressed sequence C80510,MGD-MRK-1132,MGI:2138374,MGI:2138692,MGI:87933,PARP,parp-1,poly (ADP-ribose)	poly (ADP-ribose) polymerase family, member 1
Pcna	NM_011045.2	polymerase,RIKEN cDNA 5830444G22 gene,sPARP-1	
Pdpr	NM_010329.2	ADP-ribosyltransferase (NAD+), poly (ADP-ribose) polymerase) 2,ADP-ribosyltransferase (NAD+), poly (ADP-ribose) polymerase)-like	poly (ADP-ribose) polymerase family, member 2
Pecam1	NM_008816.2	2,Adprt2,Adprt2,Aspart2,C78626,EST C78626,MGI:1353643,PARP-2	proliferating cell nuclear antigen
Pex14	NM_019781.2	MGD-MRK-13178	podoplanin
PI3Ka	NM_008899.1	glycoprotein 38,Gp38,MGD-MRK-23962,OTS-8,PA2.26,RANDAM-C85791,Cd31,CD31 antigen,expressed sequence C85791,MGD-MRK-13226,MGD-MRK-1848,MGI:2144682,PECAM-1	platelet/endothelial cell adhesion molecule 1
PI3Kb	NM_008899.1	expressed sequence R75137,MGI:2140717,Pex14p,R75137	peroxisomal biogenesis factor 14
PI3Kc	NM_029094.3	6330412C24RIK,cap3K,MGI:1917992,p110alpha,RIKEN cDNA 6330412C24	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
PI3Kcb	NM_029094.3	1110001Q02RIK,A1447572,expressed sequence A1447572,MGI:2140304,p110beta,RIKEN cDNA 1110001Q02 gene	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
PI3Kcd	XM_003945690.1	2410099E07RIK,2610208K16RIK,AW545373,expressed sequence AW545373,MGI:1917688,MGI:1925744,MGI:2140589,p110delta,RIKEN cDNA	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
PI3Kcg	NM_020272.2	2410099E07 gene,RIKEN cDNA 2610208K16 gene	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
PI3Kd	NM_020272.2	5830428L06RIK,MGI:1923289,p110gamma,PI3Kgamma,Pi(3)Kgamma,PI3K-gamma>	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit gamma
PI3Kf	NM_01024955.1	AA414921,expressed sequence AA414921,MGD-MRK-13305,MGI:2145159,p50alpha,p55alpha,p85alpha,PI3K	phosphoinositide-3-kinase regulatory subunit 1
PI3Kg	NM_008841.2	p85beta	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
Piira	NM_153510.3	AV021745,expressed sequence AV021745,DFD03,MGI:2141104	paired immunoglobulin-like type 2 receptor alpha
Pilrb1	NM_133209.2	Fdact,paired immunoglobulin-like type 2 receptor beta,Pilrb AU042772,expressed sequence AW557854,MGI:2140484,MGI:2140604,RIKEN cDNA 1190006F07 gene	paired immunoglobulin-like type 2 receptor beta 1
Pink1	NM_026880.2	cPLA2,cPLA2alpha,cytosolic phospholipase A2,cytosolic PLA2,phospholipase A2, group IV,Pla2g4,type IV PLA2	PTEN induced putative kinase 1
Pla2g4a	NM_008869.2	MGD-MRK-18726,sPLA2	phospholipase A2, group V
Pla2g5	NM_001122954.1	MGC:38590,MGD-MRK-13354,MGD-MRK-13356,Plcg-2,PLCGamma2	phospholipase C, gamma 2
Plcg2	NM_172285.1	AA536939,C85393,expressed sequence AA536939,expressed sequence C85393,MGD-MRK-39584,MGI:2139589,MGI:2140090,Pid1a,Pid1b	phospholipase D1
Pld1	NM_001164056.1		phospholipase D2
Pld2	NM_008876.2	AI315628,evt-1,expressed sequence AI315628,MGI:2141901,PH domain containing protein in retina 1,PHR1,Phret1	pleckstrin homology domain containing, family B (evectins) member 1
Plekhd1	NM_001163184.1	AP162,B2,BC089943,cDNA sequence BC089943,D330036123Rik,RIKEN cDNA AV001002,MGI:2142726,plasmolipin,RIKEN cDNA 061001D06 gene,Tm45f11,transmembrane 4 superfamily member 11	pleckstrin homology domain containing, family M (with RUN domain) member
Plekhm1	NM_183034.1		
Pllp	NM_026385.3	MRK-14219,msd,myelin synthesis deficiency,Pilp,proteolipid protein (myelin),rsh,rump shaker	plasma membrane proteolipid
Pip1	NM_0111123.2	1200007L2ARik,5430431D22Rik,AI646728,AU022916,AV231634,expressed sequence AI646728,expressed sequence AU022916,expressed sequence AV231634,MGI:1921756,MGI:2139206,MGI:2139203,MGI:2139259,RIKEN cDNA 1200007L24 gene,RIKEN cDNA 5430431D22 gene,Tem7r	proteolipid protein (myelin) 1
Pldx2	NM_026162.5	AI451018,expressed sequence AI451018,MGI:2147891,MGI:2154211,plexin Gas-3,growth arrest specific 3,MGD-MRK-13371,MGD-MRK-15215,MGD-MRK-	plexin domain containing 2
Plexb3	NM_019587.2	AW555130,DNA mismatch repair,expressed sequence AW555130,MGD-MRK-25613,MGI:2141233,mismatch repair	plexin B3
Pmp22	NM_008885.2		peripheral myelin protein 22
Pms2	NM_008886.2		PMS1 homolog2, mismatch repair system component
Pnoc	NM_001205075.1	MGD-MRK-32349,N23K,neuropeptide nociceptin	prepronociceptin
Pole	NM_011132.2	AI448359,expressed sequence AI852265,expressed sequence C81506,Gm3812,Liprin-alpha4,Liprin-alpha4a,Liprin-alpha4b,LOC100042382,MGI:2138244,MGI:2138361,MGI:2138702,MGI:3823247,predicted gene,100042382,predicted gene 3812,RIKEN cDNA subunit,Caln,Calna,CnA,expressed sequence AI841391,expressed sequence AW413465,MGD-MRK-1735,MGD-MRK-1736,MGD-MRK-35625,MGI:1920287,MGI:2139807,MGI:2139982,PP2BA alpha,PP2B alpha 1,RIKEN cDNA Z900074D19 gene	polymerase (DNA directed), epsilon
Ppfi4	NM_001144855.1	1737,MGD-MRK-35624,MGI:1913465,PP2BA beta,RIKEN cDNA 1110063J16 gene	protein tyrosine phosphatase, receptor type, f polypeptide (PTPRF), interacting protein (liprin), alpha 4
Ppp3a	NM_008913.4	CAncB1,Cnb1,MGD-MRK-35633,PP2B beta 1	protein phosphatase 3, catalytic subunit, alpha isoform
Ppp3b	NM_008914.2	CAncB2,Cnb2,MGD-MRK-35632,PP2B beta 2	protein phosphatase 3, catalytic subunit, beta isoform
Ppp3r1	NM_024459.2	16300,MSP23,OSF-3,osteoblast specific factor 3,PAG,Paga,proliferation-associated gene A,prx1,Prx1,Prx1,Tdpx2,TDX2,thioredoxin dependent peroxidase 2,Tx dependent peroxidase 2	protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type 1)
Ppp3r2	NM_001004025.4	CAncB2,Cnb2,MGD-MRK-35632,PP2B beta 2	protein phosphatase 3, regulatory subunit B, beta isoform (calcineurin B, type 2)
Prdx1	NM_011034.4		peroxiredoxin 1
Prf1	NM_011073.2	MGD-MRK-13251,MGD-MRK-13605,perforin,perforin 1,Pfn,Pfp,pore forming C alpha,Cs,MGD-MRK-13323,PKA,PKaca	perforin 1 (pore forming protein)
Prkaca	NM_008854.3	cAMP-dependent protein kinase C beta,MGD-MRK-13325,PKacB	protein kinase, cAMP dependent, catalytic, alpha
Prkacb	NM_011100.3	Z9031,MGI:1914726,Rialpha,RIKEN cDNA 1300018C22 gene,tissue specific extinction 1, of Tat,Tse1,Tse-1 sequence AI83829,MGD-MRK-	protein kinase, cAMP dependent, catalytic, beta
Prkar1a	NM_021880.2	37061,MGI:1913460,MGI:2143017,MGI:2143127,Ril(alpha),RIKEN cDNA 1110061A24 gene	protein kinase, cAMP dependent regulatory, type I, alpha
Prkar2a	NM_008924.2	AW061005,MGD-MRK-13326,MGD-MRK-13611,MGI:2144832,MGI:2145000,PKarb2,PKARl(beta),Ril(beta)	protein kinase, cAMP dependent regulatory, type II beta
Prkar2b	NM_011158.3	13331,MGI:1914847,MGI:2147156,Pkce,PKC[epsilon],PKCepsilon,R75156,RIKEN cDNA 5830406C15 gene	protein kinase C, epsilon
Prkce	NM_011104.2	AI30035A12Rik,AW494342,expressed sequence AW494342,MGD-MRK-13333,MGI:2139356,MGI:2442369,PKC-O,Pkccq,PKCtheta,PKC theta,PKC-theta,RIKEN cDNA A130035A12 gene	protein kinase C, theta
Prkcg	NM_008859.2	nephropathy,dxnp,expressed sequence AI326420,expressed sequence AU019811,MGD-MRK-14312,MGD-MRK-28071,MGI:2146417,MGI:2146554,MGI:3574416,acid,severe combined immunodeficiency,slip,XRCC7	protein kinase C, gamma
Prkdc	NM_011159.2	AW214361,expressed sequence AW214361,MGI:2146630,protein 5 Adh4,AI266870,ALG-3,alzheimer disease 4 homolog,expressed sequence AI266870,MGD-MRK-38329,MGI:2138190,PS2,PS-2	protein kinase, DNA activated, catalytic polypeptide protein S (alpha)
Prksi	NM_011173.2		
Psen2	NM_001128605.1	large multifunctional protease 7,Lmp7,Lmp-7,low molecular weight polypeptide 7,MGD-MRK-11822,MGD-MRK-11824,MGI:96798 sequence AI463227,MGD-MRK-39582,MGI:1917411,MGI:2147557,MGI:2443558,MMAC1,RIKEN cDNA 2310035O07 gene,RIKEN cDNA A130070J02 gene,RIKEN cDNA B430203M17	presenilin 2
Psmb8	NM_010724.2	EP3,MGD-MRK-13257,MGD-MRK-13662,Pgerep3,prostaglandin E receptor EP3	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)
Pten	NM_008960.2	EP4,MGD-MRK-25639,prostaglandin E receptor EP4 subtype,Ptgerep4	phosphatase and tensin homolog
Ptger3	NM_011196.2	Cox-2,COX2,cyclooxygenase 2,cyclooxygenase-2,MGD-MRK-13665,Pghs2,Pghs-2,PHS-2,prostaglandin G/H synthase,Ts10	prostaglandin endoperoxide synthase 2
Ptger4	NM_008965.1	hcp,Hcp,hemopoietic cell phosphatase,me,MGD-MRK-10672,MGD-MRK-12181,mothteam,PtncL,SHP-1,Spin	parathyromin
Ptgs2	NM_011198.3	11992,MGD-MRK-12076,MGD-MRK-13679,MGD-MRK-1864,MGI:3584395,T100,T lymphocyte antigen 4	protein tyrosine phosphatase, non-receptor type 6
Ptms	NM_026988.2	AIW55095,C87862,expressed sequence AW555095,expressed sequence C87862,MGI:2144572,MGI:2147417,PTTG,securin	protein tyrosine phosphatase, receptor type, C
Ptpn6	NM_013545.2	AI607804,expressed sequence AI607804,MGD-MRK-	protein tyrosine phosphatase, receptor type, C
Ptpnc	NM_011210.3	9130417A21Rik,Asc,MGI:1914074,RIKEN cDNA 9130417A21 gene,TMS-1 AI844641,C330006L04Rik,D9B98185e,DNA segment, Chr 9, Brigham & Women's Genetics 0185,expressed,expressed sequence AI844641,MGD-MRK-35748,MGI:1924738,MGI:2143137,RIKEN cDNA C330006L04 gene	protein tyrosine phosphatase, non-receptor type 6
Pttg1	NM_001131054.1	expressed,expressed sequence AL023026,MGD-MRK-13748,MGI:1261850,MGI:2141016	pituitary tumor-transforming gene 1
Ptx3	NM_008987.3	AI452260,MGD-MRK-13749,MGI:2145980,MGI:2146018	pentraxin related gene
Pycard	NM_023258.4	9430035O09Rik,MGI:2441744,MmRad24,RIKEN cDNA 9430035O09 gene	PYD and CARD domain containing
Rab6b	NM_173781.4	MGD-MRK-38337,MGI:894309,Mrell,Rad50,RAD50-like 13824,MGI:2139265,Rad51a,RAD51A homolog (S. cerevisiae),Reca,recombination and repair of radiation damage, RAD51 AI553500,expressed sequence AI553500,MGI:2144860,mREC2,RS1H2,RAD51 homolog B (S. cerevisiae),Rad51l1,RAD51-like 1 (S. cerevisiae)	RAB6B, member RAS oncogene family
Rab7	NM_009005.2	MGD-MRK-32107	RAB7, member RAS oncogene family
Rac1	NM_009007.2	expressed,expressed sequence AI023026,MGD-MRK-13748,MGI:1261850,MGI:2141016	
Rac2	NM_009008.3	AI323801,AI452260,expressed sequence AI323801,expressed sequence AI452260,MGD-MRK-13749,MGI:2145980,MGI:2146018	RAS-related C3 botulinum substrate 1
Rad1	NM_011232.2		RAS-related C3 botulinum substrate 2
Rad17	NM_001044371.1	9430035O09Rik,MGI:2441744,MmRad24,RIKEN cDNA 9430035O09 gene	RAD1 checkpoint DNA exonuclease
Rad50	NM_009012.2	MGD-MRK-38337,MGI:894309,Mrell,Rad50,RAD50-like 13824,MGI:2139265,Rad51a,RAD51A homolog (S. cerevisiae),Reca,recombination and repair of radiation damage, RAD51 AI553500,expressed sequence AI553500,MGI:2144860,mREC2,RS1H2,RAD51 homolog B (S. cerevisiae),Rad51l1,RAD51-like 1 (S. cerevisiae)	RAD17 checkpoint clamp loader component
Rad51	NM_011234.4		RAD50 double strand break repair protein
Rad51b	NM_009014.3		RAD51 recombinase
Rad51c	NM_053269.3		RAD51 paralog B
Rad9a	NM_011237.2	Rad9,RAD9 homolog (S. pombe)	RAD51 paralog C
Rag1	NM_009019.2	MGD-MRK-13753,MGD-MRK-13755,Rag-1 13757,MGI:1917666,MGI:2145427,MGI:97861,Ral,Rasl1,RAS-like, family 1,RAS like protein,RIKEN cDNA 3010001O15 gene	RAD9 checkpoint clamp component A
Rala	NM_019491.5	573047201Rik,MGI:1917847,RIKEN cDNA 5730472018 gene	recombination activating gene 1
Ralb	NM_022327.5	2310016P22Rik,9130170P05Rik,Epac1,MGI:1917354,RIKEN cDNA 2310016P22Rik gene,RIKEN cDNA 9130170P05 gene	RAS-related C3 botulinum substrate 1
Rapgef3	NM_001177810.1	2900055E04Rik,5930404L04Rik,Ccl1,coiled coil forming protein 1,Fip200,LaXp180,MGI:1920276,MGI:1924359,mKIAA0203,RIKEN cDNA 2900055E04 gene,RIKEN cDNA 5930404L04 gene	v-ral simian leukemia viral oncogene A (ras related)
Rbicc1	NM_009826.4	expressed,Hrnbp3,MGD-MRK-34061,MGI:1929613,NeuN,Neuna60,neuronal nuclear antigen A60	v-ral simian leukemia viral oncogene B
Rbfox3	NM_001024931.2	MGD-MRK-24172,p65,p65 NF kappaB	Rap guanine nucleotide exchange factor (GEF) 3
Rela	NM_009045.4	MGD-MRK-24171,MGI:4838325,shp,spontaneous hepatitis	RNA binding protein, fox-1 homolog (C. elegans) 3
Relb	NM_009046.2	MGD-MRK-13895,MGD-MRK-23859,reefer,r1	v-ret reticuloendotheliosis viral oncogene homolog A (avian)
Reln	NM_011261.2		avian reticuloendotheliosis viral (v-rel) oncogene related B

Rgl1	NM_016846.3	MGD-MRK-36052,Rgl	ral guanine nucleotide dissociation stimulator,-like 1
Rhoa	NM_016802.4	family, member A,rho homolog gene family, member A2,RhoA	ras homolog family member A
Ripk1	NM_009068.3	MGD-MRK-37251, receptor interacting protein, Rinp, Rip1 2210420D18Rik, CARD3, CARDIAK, CK, D4Bwg0615e, DNA segment, Chr 4, Brigham & Women's Genetics 0615 expressed, MGD-MRK-	receptor (TNFRSF)-interacting serine-threonine kinase 1
Ripk2	NM_138952.3	34205, MGI:106511, MGI:1917420, RIK, RIKEN cDNA 2210420D18 gene, RIP2	receptor (TNFRSF)-interacting serine-threonine kinase 2
Rnf8	NM_021419.2	3830404E21Rik, AIP37, MGI:1917939, RIKEN cDNA 3830404E21 gene	ring finger protein 8
Rpa1	NM_026653.2	AA589576, expressed sequence AW557552, MGI:1194911, MGI:2144032, MGI:2144576, replication protein A, RF- A, RIKEN cDNA 5031405K23 gene, Rpa, RPA	replication protein A1
Rpl28	NM_009081.2	D7Wsu21e, DNA segment, Chr 7, Wayne State University 21, expressed, MGD-	ribosomal protein L28
Rpl29	NM_009082.2	MRK-18660, MGD-MRK-34142, MGI:106448	ribosomal protein L29
Rpl36a1	NM_025589.4	MGD-MRK-16472, ribosomal protein L43, Rpl43	ribosomal protein L36A-like
Rpl9	NM_011292.2	2410038A03Rik, RIKEN cDNA 2410038A03 gene, RPL36A	ribosomal protein L9
Rps10	NM_025963.3	2210402A09Rik, RIKEN cDNA 2210402A09 gene	ribosomal protein S10
Rps2	NM_008503.5	L1rep3, MGD-MRK-32150, repeat family 3 gene 1810049N11Rik, 2410030A14Rik, MGI:1923769, RIKEN cDNA 1810049N11	ribosomal protein S2
Rps21	NM_025587.2	gene, RIKEN cDNA 2410030A14 gene	ribosomal protein S21
Rps3	NM_012052.2	D7Erd795e, DNA segment, Chr 7, ERATO Doi 795, expressed, MGI:1289204 sequence AL022885, MGI:2142087, MGI:2142089, RIKEN cDNA 3010033P07	ribosomal protein S3
Rps9	NM_029767.2	gene	ribosomal protein S9
Rrm2	NM_009104.1	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
Rtn4r1	NM_177708.4	MGI:2669799, Ngr3, NgrH2, NgrI2, nogo-66 receptor 3 42C, AA409961, AL024248, CAL12, Cal11, calpactin I light chain, CLP11, expressed sequence AA409961, expressed sequence AL024248, MGD-MRK-	reticulon 4 receptor-like 1
S100a10	NM_009112.2	1728, MGI:2139574, MGI:2139857, MGI:88247, p10	S100 calcium binding protein A10 (calpactin)
S100b	NM_009115.3	AI850290, expressed sequence AI850290, MGD-MRK-14269, MGI:2143688 AI132464, Edg3, endothelial differentiation, sphingolipid G-protein-coupled	S100 protein, beta polypeptide, neural
S1pr3	NM_010101.3	receptor, 3, expressed sequence AI132464, LPb3, MGI:2145186, S1P3	sphingosine-1-phosphate receptor 3
S1pr4	NM_010102.2	Edg6, endothelial differentiation, G-protein-coupled receptor 6, IpC1, S1P4	sphingosine-1-phosphate receptor 4
S1pr5	NM_053190.2	Edg8, endothelial differentiation, sphingolipid G-protein-coupled receptor,	sphingosine-1-phosphate receptor 5
Sall1	NM_021390.3	Msal-3 22, Lyam1, Lyam-1, Ly-m22, lymph node homing receptor, lymphocyte adhesion molecule 1, lymphocyte antigen 22, lymphocyte antigen m22, MGD-MRK-	spalt like transcription factor 1
Sell	XM_006496716.1	11841, MGD-MRK-11961, MGD-MRK-12014, MGD-MRK-12052, MGD-MRK- 12053, MGD-MRK-14358, MGI:2138287	selectin, lymphocyte
Serpina3n	NM_009252.2	alpha-1 antiprotease, antitrypsin, MGD-MRK-32084, serine protease inhibitor 2- 2, Sp2-2, Sp2, 2, Sp2/eb4	serine (or cysteine) peptidase inhibitor, clade A, member 3N
Serpine1	NM_008871.2	MGD-MRK-13344, PAI1, PAI-1, Planh1, plasminogen activator inhibitor, type 1 23945, MGD-MRK-37117, MGI:103081, MGI:2144083, Pedf, PedfI, pigment	serine (or cysteine) peptidase inhibitor, clade E, member 1
Serpinf1	NM_011340.3	epithelium derived factor, pigment epithelium-derived factor, pigment	serine (or cysteine) peptidase inhibitor, clade F, member 1
Serping1	NM_009776.3	epithelium-derived factor-like, SDF3, stromal cell derived factor 3 C1INH, C1 inhibitor, C1 inh, complement component 1 inhibitor	serine (or cysteine) peptidase inhibitor, clade G, member 1
Sesn1	NM_001013370.2	AU044290, MGI:1915788, MGI:2143767, PA26, RIKEN cDNA 1110002G11	sestrin 1
Sesn2	NM_144907.1	gene, SEST1	sestrin 2
Setd1a	NM_178029.3	BC010250, cDNA sequence BC010250, KMT2F, MGC:55143, mKIAA0339	SET domain containing 1A
Setd1b	NM_001040398.1	AA516740, BC035291, cDNA sequence BC035291, expressed sequence AA516740, KMT2G, MGC:39035, MGI:2140755, mKIAA1076	SET domain containing 1B
Setd2	NM_001081340.2	4921524K10Rik, BC031601, cDNA sequence BC031601, KMT3A, MGI:2446266, RIKEN cDNA 4921524K10 gene	SET domain containing 2
Setd7	NM_080793.5	1600028F23Rik, KMT7, mKIAA1717, RIKEN cDNA 1600028F23	SET domain containing (lysine methyltransferase) 7
Setd7b	NM_018877.2	gene, Set7, Set7, SET domain-containing protein 7 AU022152, ESET, expressed sequence	SET domain, bifurcated 1
Sftpd	NM_009160.2	A1573415, expressed sequence A1573415, MGD-MRK-16239, MGD-MRK- 39514, MGI:2145671, Sfpd, Sfp4, SP-D, surfactant-associated protein 4	surfactant associated protein D
Sh2d1a	NR_132588.1	Duncan disease homolog, SAP	SH2 domain containing 1A
Shank3	NM_021423.3	AI841104, expressed sequence AI841104, MGI:2146068, ProSAP2	SH3 and multiple ankyrin repeat domains 3
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 AW553200, expressed sequence AW553200, MGD-MRK-24169, MGD-MRK-	sialic acid binding Ig-like lectin F
Sin3a	NM_001110350.1	35618, MGI:2143326, mSin3A, Sin3	transcriptional regulator, SIN3A (yeast)
Sirt1	NM_019812.2	AA673258, expressed sequence AA673258, MGI:2143506, Sir2, Sir2alpha	sirtuin 1
Slamf8	NM_029084.3	5830408F06Rik, Blame, RIKEN cDNA 5830408F06 gene, SBBIA2 2310026I04Rik, AI462096, Cd2f10, Cd2f-10, CD84-H1, expressed sequence	SLAM family member 8
Slamf9	NM_029612.4	AI462096, MGI:2138260, RIKEN cDNA 2310026I04 gene, SF2001	SLAM family member 9
Slc10a6	NM_029415.2	8430417G17Rik, C78479, expressed sequence C78479, MGI:2141304, RIKEN	solute carrier family 10 (sodium/bile acid cotransporter family), member 6
Slc17a6	NM_080853.3	2900073D12Rik, MGI:1920305, RIKEN cDNA 2900073D12 gene, VGLUT2 2900052E22Rik, AIBS1913, expressed sequence AIBS1913, MGI:2142059, RIKEN	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7
Slc17a7	NM_182993.2	cDNA 2900052E22 gene, Vglut1 1, expressed sequence AIBS2299, GLAST, glutamate transporter 1, Gmt1, MGD- MRK-16514, MGD-MRK-16274, MGD-MRK-	solute carrier family 1 (glial high affinity glutamate transporter), member 3
Slc1a3	NM_148938.3	16718, MGI:2146029, MGI:2444735, MGLT1, RIKEN cDNA 8430115D02 gene	solute carrier family 2 (facilitated glucose transporter), member 1
Slc2a1	NM_011400.3	glucose transporter 1, erythrocyte, Glut1, Glut-1, MGD-MRK-10155, MGD-MRK-	solute carrier family 2 (facilitated glucose transporter), member 5
Slc2a5	NM_019741.3	A1526984, expressed sequence A1526984, GLUT5, MGI:2140325	solute carrier family 2 (facilitated glucose transporter), member 5
Slc44a1	NM_001159633.1	antigen, CHTL1, CTL1, expressed sequence AW547365, MGI:1917424, MGI:1921010, RIKEN cDNA 2210409B22 gene, RIKEN	solute carrier family 44, member 1
Slc6a1	NM_178703.4	cDNA 4833416H08 gene Gabt, Gabt1, gamma-aminobutyric acid (GABA A) transporter, gamma- aminobutyric acid (GABA A) transporter 1, Gat1, GAT-1, MGD-MRK-19419, MGD- MRK-9946, MGD-MRK-9947, XT-1, X transporter protein 1, Xtrp1	solute carrier family 6 (neurotransmitter transporter, GABA), member 1
Slico2b1	NM_175316.3	AI060904, AI852653, expressed sequence AI060904, expressed sequence AI852653, MGI:2141865, MGI:2142064, OATP-B, Slc21a9, solute carrier family 21	solute carrier organic anion transporter family, member 2b1
Slnf8	NM_181545.4	(organic anion transporter), member 9 1622, MGI:5313994, MGI:5316763, Mutant line 508, subline 1, Mutant line 692, SNF2beta, SW1/SNF	schlafen 8
Smarca4	NM_011417.2	, MGI:2443329, MGI:3586540, modifier of murine metastable epialleles, Da, MommeD4, RIKEN cDNA 4933427E24 gene, RIKEN cDNA D030040M08	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 4
Smarca5	NM_053124.2	gene, RIKEN cDNA D330027N15 gene, Snf2h AA407987, Baf60a, D15Kz1, DNA segment, Chr 15, Kozak 1, expressed sequence AA407987, MGD-MRK-4023, MGI:2145894, MGI:90224	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 5
Smarcd1	NM_031842.1	5830426I24Rik, MGI:1915016, RIKEN cDNA 5830426I24 gene, SBI.8, Smc1, Smc1alpha, Smc111, SMCB, SMC (structural maintenance of chromosomes 1)-like 1 (S. cerevisiae)	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily d, member 1
Smc1a	NM_019710.2	structural maintenance of chromosomes 1A	structural maintenance of chromosomes 1A
SncA	NM_009221.2	alpha-Syn, alphaSYN, alpha-synuclein	synuclein, alpha
Socs3	NM_007707.2	protein 3, E2a-Pbx1 target gene in fibroblasts 10, EF-10, SOCS-3, SSI-3, STAT- induced STAT inhibitor 3	suppressor of cytokine signaling 3
Sod2	NM_013671.3	manganese SOD, manganese superoxide dismutase, MGC:6144, MGD-MRK- 14484, MGD-MRK-14486, MnSOD, Sod-2	superoxide dismutase 2, mitochondrial
Sox10	XM_128139.6	14497, MGD-MRK-38228, MGD-MRK-	SRY (sex determining region Y)-box 10
Sox4	NM_009238.2	8879, MGI:109184, MGI:94914, MGI:95866, Sox21, SRY-box containing gene 21 AA682046, expressed sequence AA682046, MGD-MRK-14495, MGD-MRK- 2010306G03Rik, AV220920, expressed sequence AV220920, MGD-MRK-	SRY (sex determining region Y)-box 4
Sox9	NM_011448.4	14510, MGI:1917265, MGI:2144464, RIKEN cDNA 2010306G03 gene	SRY (sex determining region Y)-box 9
Sphk1	NM_011451.3	1110006G24Rik, MGI:1913372, RIKEN cDNA 1110006G24 gene, SK1	sphingosine kinase 1
SpiB	NM_019866.1	Spi-B	Spi-B transcription factor (Spi-1/PU.1 related)
Spint1	NM_016907.3	HAI-1 1, AI790405, Api-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-	serine protease inhibitor, Kunitz type 1
Spp1	NM_009263.3	9656, MGI:2140792, MGI:2140963, minopontin, OP, Opn, Opnl, osteopontin, osteo pontin-like protein, Rik, rickettsia tsutsugamushi resistance, Spp-1	secreted phosphoprotein 1

Sqstm1	NM_011018.2	A170,MGD-MRK-36511,OSF-6,Os,oxidative stress induced,p62,STAP	sequestosome 1
Srgn	NM_011157.2	MGD-MRK-13606,MGD-MRK-14384,Prg1,proteoglycan 1, secretory A1854065,expressed sequence AW488194,MGD-MRK-31044,MGI:1923900,MGI:2139100,MGI:2139350,neoplastic progression 3,Npn3,RIKEN cDNA 1700127B04 gene,Srx,Srx1	serglycin
Srxn1	NM_029688.4	A1930218,expressed sequence AW552396,MGI:1922763,MGI:2146521,MGI:2146659,RIKEN cDNA 1700023824 gene,sialyltransferase 10 (alpha-2,3-sialyltransferase sequence A1875066,MGI:1916566,MGI:2138880,MGI:2139109,RIKEN cDNA 1700007J08 gene,sialyltransferase 8 (alpha-2, 8-sialyltransferase)	sulfiredoxin 1 homolog (S. cerevisiae)
St3gal6	NM_018784.2	F.Slat8f,ST8Sia VI	ST3 beta-galactoside alpha-2,3-sialyltransferase 6
ST8sia6	NM_145838.1	2010005J02Rik,AA408197,expressed sequence AA408197,MGD-MRK-23925,MGI:1923977,MGI:2138078,RIKEN cDNA 2010005J02 gene	ST8 alpha-N-acetyl-neuraminidase alpha-2,8-sialyltransferase 6
Stat1	NM_009283.3	A1841214,MGI:2140915,MGI:2152335,Tiarp,Tnfai9,tumor necrosis factor, alpha-induced protein 9	signal transducer and activator of transcription 1
Steap4	NM_054098.3	gene,leukemia associated phosphoprotein p18,metablastin,MGD-MRK-11729,MGI:2146799,oncoprotein18,op18,p18,p19,pp17,PP18,PR22,prosolin,SAMN	STEAP family member 4
Stmn1	NM_019641.3	AU041562,MGI:1916395,MGI:2141082,RIKEN cDNA 1810035L21 gene,RIKEN cDNA 4933425D03 gene	stathmin 1
Stx18	NM_026959.2	PIC1,SENTRIN,Smt3C,ubiquitin-like 1,Ubl1	syntaxin 18
Sumo1	NM_009460.1	expressed,DXHS7466,expressed sequence A1852103,expressed sequence A1022883,KMT1A,MGI:2147928,MGI:2147944,m156,Suv39h histone methyltransferase	small ubiquitin-like modifier 1
Suv39h1	NM_011514.2	expressed,expressed sequence AA536750,KMT1B,MGI:1261878,MGI:1922296,MGI:2138788,RIKEN cDNA 4930507K23 gene,Suv39h histone methyltransferase	suppressor of variegation 3-9 1
Suv39h2	NM_022724.4	Chr 11, ERATO Doi 530, expressed,expressed sequence A1195385,expressed sequence AU016842,expressed sequence AW536442,MGI:1922065,MGI:2144085,MGI:2144379,MGI:2144551,mKIAA0160,RIKEN cDNA 2610028O16 gene	suppressor of variegation 3-9 2
Suz12	NM_199196.1	MGD-MRK-16292,Sykb	SUZ12 polycomb repressive complex 2 subunit
Syk	NM_001198977.1	sequence A1841723,MGD-MRK-23857,MGI:1914524,MGI:2141475,MGI:2141484,RIKEN cDNA 2900074L19 gene,Synapsin Ila,Synapsin lib	spleen tyrosine kinase
Syn2	NM_013681.1	14690,MGI:2147923,MGI:2441790,p38,RIKEN cDNA A230093K24 gene,Syn,Syp 1	synapsin II
Syp	NM_009305.2	MGD-MRK-23864,MGD-MRK-37240,MGI:108201,Prpb,protamine RNA binding	synaptophysin
Tarbp2	NM_001253795.1	5930406J04Rik,A5160,AV295684,expressed sequence AV295684,MGI:2442592,MGI:3034398,RIKEN cDNA 5930406J04 gene	TARBP2, RISC loading complex RNA binding subunit
Tbc1d4	NM_001081278.2	MGD-MRK-35872	TBC1 domain family, member 4
Tbr1	NM_009322.3	Tbet,T-bet,Tblym,TBT1	T-box brain gene 1
Tbx21	NM_019507.2	ATP6a3,ATP6i,ATPase, H+ transporting, lysosomal I,MGD-MRK-12970,MGI:97398,oc,OC-116,osteosclerotic,TIRC7,V-ATPase a3	T-box 21
Tc1rg1	NM_001136091.1	segment, Chr 10, ERATO Doi 17, expressed,expressed sequence A4517754,expressed sequence B8001228,MGI:1917658,MGI:2143481,MGI:2143889,mKIAA1676,RIKEN cDNA	T cell, immune regulator 1, ATPase, H+ transporting, lysosomal V0 protein A3
Tcl1	NM_009337.3	A1173908,expressed sequence A1173908 MGI:2146382	T cell lymphoma breakpoint 1
Tet1	NM_027384.1	MGD-MRK-15062,MGD-MRK-15421,MGD-MRK-15423,wa1,wa-1,waved 1	tet methylcytosine dioxygenase 1
Tfg	NM_001252443.1	MGD-MRK-15063,MGD-MRK-15064,MGD-MRK-15067,Tgfb,Tgfb-Aik-5,AIK5,AU017191,expressed sequence AU017191,MGD-MRK-15070,MGI:2140434,TbetaRI,TbetaR-I	Trk-fused gene
Tgfa	NM_031199.2	glutamine-gamma-glutamyltransferase,RIKEN cDNA 2310004J08	transforming growth factor alpha
Tgfb1	NM_011577.1	transglutaminase 1, K polypeptide	transforming growth factor, beta 1
Tgfb2	NM_009370.2	transglutaminase 2, C polypeptide	transforming growth factor, beta receptor I
Tgfb3	NM_009370.2	transglutaminase 2, C polypeptide	
Tgfr1	NM_001161714.1	tyrosine kinase with immunoglobulin-like and EGF-like domains 1	
Tgm1	NM_001161714.1	timless circadian clock 1	
Tgm2	NM_009373.3	tissue inhibitor of metalloproteinase 1	
Tgm3	NM_009373.3	transducin-like enhancer of split 3	
Tie1	NM_011587.2	transducin-like enhancer of split 3	
Tie2	NM_011587.2	transducin-like enhancer of split 3	
Timeless	NM_011589.1	transducin-like enhancer of split 3	
Timp1	NM_011593.2	transducin-like enhancer of split 3	
Tle3	NM_009389.2	transducin-like enhancer of split 3	
Tlr2	NM_011905.2	transducin-like enhancer of split 3	
Tlr4	NM_021297.2	transducin-like enhancer of split 3	
Tlr7	NM_133211.3	transducin-like enhancer of split 3	
Tms6f1	NM_008536.3	transducin-like enhancer of split 3	
Tmc7	NM_172476.4	transducin-like enhancer of split 3	
Tmcc3	NM_172051.2	transducin-like enhancer of split 3	
Tmem100	NM_026433.2	transducin-like enhancer of split 3	
Tmem119	NM_146162.2	transducin-like enhancer of split 3	
Tmem144	NM_027495.4	transducin-like enhancer of split 3	
Tmem173	NM_028261.1	transducin-like enhancer of split 3	
Tmem204	NM_01001183.1	transducin-like enhancer of split 3	
Tmem206	NM_025864.3	transducin-like enhancer of split 3	
Tmem37	NM_019432.2	transducin-like enhancer of split 3	
Tmem64	NM_181401.3	transducin-like enhancer of split 3	
Tmem88b	NM_001033394.3	transducin-like enhancer of split 3	
Tnf	NM_013693.2	transducin-like enhancer of split 3	
Tnfrsf10b	NM_020275.3	transducin-like enhancer of split 3	
Tnfrsf11b	NM_008764.3	transducin-like enhancer of split 3	
Tnfrsf12a	NM_001161746.1	transducin-like enhancer of split 3	
Tnfrsf13c	NM_028075.2	transducin-like enhancer of split 3	
Tnfrsf17	NM_011608.1	transducin-like enhancer of split 3	
Tnfrsf1a	NM_011609.2	transducin-like enhancer of split 3	
Tnfrsf1b	NM_011610.3	transducin-like enhancer of split 3	
Tnfrsf25	NM_033042.3	transducin-like enhancer of split 3	
Tnfrsf4	NM_011659.2	transducin-like enhancer of split 3	
Tnfrsf10	NM_009425.2	transducin-like enhancer of split 3	
Tnfrsf12	NM_011614.3	transducin-like enhancer of split 3	
Tnfrsf13b	NM_033622.1	transducin-like enhancer of split 3	
Tnfrsf4	NM_009452.2	transducin-like enhancer of split 3	
Tnfrsf8	NM_009403.2	transducin-like enhancer of split 3	
Top2a	NM_011623.2	transducin-like enhancer of split 3	

		sequence	
Topbp1	NM_176979.5	A1256758,MGI:1915957,MGI:2143001,MGI:2442540,mKIAA0259,RIKEN cDNA 1110031N14 gene,RIKEN cDNA 2810429C13 gene,RIKEN cDNA D430026L04	topoisomerase (DNA) II binding protein 1
Tpd52	NM_001025262.1	A1043038,expressed sequence A1043038,mDS2,MGD-MRK-AV011504,expressed sequence AV011504,mast cell protease 6,Mcp6,Mcp-6,Mcp6,MGD-MRK-12148,MGD-MRK-12156,MGI:2147011,MMCP-6 9130005N23RIK,AA930854,expressed sequence AA930854,MGD-MRK-	tumor protein D52
Tpsb2	NM_010781.3	38244,MGI:1918859,MGI:2142447,RIKEN cDNA 9130005N23 gene	tryptase beta 2
Tradd	NM_001033161.2	4732496E14RIK,MGD-MRK-18657,MGI:2443877,RIKEN cDNA 4732496E14	TNFRSF1A-associated via death domain
Traf1	NM_009421.3	A1325259,expressed sequence A1325259,MGD-MRK-18656,MGI:2138907	TNF receptor-associated factor 1
Traf2	NM_009422.2	A1528849,CAP-1,CD40bp,CRAF1,expressed sequence A1528849,LAP1,MGD-MRK-36169,MGD-MRK-37077,MGI:2144858	TNF receptor-associated factor 2
Traf3	NM_011632.3	A1851288,MGD-MRK-37109,MGI:1919554,MGI:2139081,RIKEN cDNA 2310003F17 gene,RIKEN cDNA C630032O20 gene	TNF receptor-associated factor 3
Traf6	NM_009424.2	C030046M14RIK,RIKEN cDNA C030046M14 gene,T-cell receptor interacting	TNF receptor-associated factor 6
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	T cell receptor associated transmembrane adaptor 1
Trem2	NM_031254.2	BB134760,expressed sequence BB134760,MGI:2147107	triggering receptor expressed on myeloid cells 2
Trem3	NM_021407.3	2210023F24RIK,RIKEN cDNA 2210023F24 gene	triggering receptor expressed on myeloid cells 3
Trim47	NM_001205081.1	MGD-MRK-15247,MGI:3584375,MGI:3584378,MGI:3584379,p44,p53	tripartite motif-containing 47
Trp53	NM_011640.1	53BP2,A1746547,ASPP2,expressed sequence A1746547,expressed sequence	transformation related protein 53
Trp53bp2	NM_173378.2	X98550,MGI:2138737,X98550	transformation related protein 53 binding protein 2
Trp73	NM_011642.3	deltaNp73,p73,TAp73	transformation related protein 73
Trpa1	NM_177781.4	1110030C19RIK,AW047689,expressed sequence	transient receptor potential cation channel, subfamily A, member 1
Trpm4	NM_175130.4	AW047689,LTRPC4,MGI:2142190,RIKEN cDNA 1110030C19 gene,TRPM4B 2610042G18RIK,BB226562,expressed sequence	transient receptor potential cation channel, subfamily M, member 4
Tspan18	NM_183180.2	BB226562,MGI:3035432,RIKEN cDNA 2610042G18 gene	tetraspanin 18
Ttr	NM_013697.4	AA408768,A1787086,D17860,expressed sequence AA408768,expressed sequence A1787086,expressed sequence D17860,MGD-MRK-15296,MGI:2147169,MGI:2147263,MGI:2147418,prealbumin	transthyretin
Tubb3	NM_023279.2	3200002H15RIK,betaIII-tubulin,MGD-MRK-36390,MGI:1914177,RIKEN cDNA A1325297,expressed sequence A1325297,MGD-MRK-15302,MGD-MRK-36425,MGI:2146828,MGI:98870,Tubb4,tubulin, beta,tubulin, beta 4	tubulin, beta 3 class III
Tubb4a	NM_009451.3	TR,TR1,TR alpha,TrxR1	tubulin, beta 4A class IVA
Txnrd1	NM_015762.2	DAP12,KARAP,killer cell activating receptor associated protein	thioredoxin reductase 1
Tyropb	NM_011662.2	AW455908,mCerGT,MGD-MRK-36113,MGD-MRK-39521,MGI:2139820,MGI:2139983,UDP-galactose ceramide galactosyltransferase,UDP-glucuronosyltransferase 8,Ugt8	TYRO protein tyrosine kinase binding protein
Ugt8a	NM_011674.4	AU041434,expressed sequence AU041434,MGI:2141081,mKIAA0722,Unc51.1	UDP galactosyltransferase 8A
Ulk1	NM_009469.3	MGD-MRK-38397,UNG1	unc-51 like kinase 1
Ung	NM_001040691.1	histocompatibility Y antigen D^b-restricted,Hyd,b,MGD-MRK-5ybl1,synaptobrevin like 1,VAMP-7	uracil DNA glycosylase
Uty	NM_009484.2	MGD-MRK-15381	ubiquitously transcribed tetrapeptide repeat gene, Y chromosome
Vamp7	NM_015155.4	MGD-MRK-24046,vascular endothelial growth	vesicle-associated membrane protein 7
Vav1	NM_011691.4	MGD-MRK-15395	vav 1 oncogene
Vegfa	NM_001025250.3	A1325971,expressed sequence	vascular endothelial growth factor A
Vim	NM_011701.4	AW553189,MGI:11698,MGI:1925470,MGI:2142511,MGI:2145042,RIKEN 8030489C12RIK,MGI:2442405,RIKEN cDNA 8030489C12 gene,Skd1,suppressor of K+ transport defect 1	vimentin
Vps4a	NM_126165.1	expressed sequence U42471,MGD-MRK-32098,MGI:2144716,U42471,Wasp,Wiskott-Aldrich syndrome protein	vacuolar protein sorting 4A
Vps4b	NM_009190.2	sequence AA408785,expressed sequence AA960360,MGI:1922060,MGI:2138759,MGI:2138815,RIKEN cDNA 2410008O07 gene	vacuolar protein sorting 4B
Was	NM_009515.2	A1661682,ATAC,expressed sequence A1661682,Lptn,LTN,lymphotoxin,MGD-MRK-26027,MGI:2138317,SCM-1,SCM-1a,Scyc1,small inducible cytokine subfamily C, member 1 (lymphotoxin)	Wiskott-Aldrich syndrome
Wdr5	NM_080848.2	A,baculoviral IAP repeat-containing 4,Birc4,IAP3,ILP-1,MGD-MRK-36144,MGI:1922024,RIKEN cDNA 1110015C02 gene	WD repeat domain 5
Xcl1	NM_008510.1	G22p1,Ku70,Ku p70,MGD-MRK-9914,thyroid autoantigen	chemokine (C motif) ligand 1
Xiap	NM_009688.2	2010010H03RIK,Dai,MGI:1917117,mZaDLM,RIKEN cDNA 2010010H03 gene	X-linked inhibitor of apoptosis
Xrcc6	NM_010247.2	8030486J21RIK,RIKEN cDNA 8030486J21 gene,ZFF29a,ZFF29b	X-ray repair complementing defective repair in Chinese hamster cells 6
Zbp1	NM_021394.2		Z-DNA binding protein 1
Zfp367	NM_175494.4		zinc finger protein 367
Internal Reference Genes			
Aars	NM_146217.4	A1316495,C76919,expressed sequence A1316495,expressed sequence C76919,MGI:37368,MGI:1890634,MGI:2142499,MGI:2142843,sti,sticky	alanyl-tRNA synthetase
Asb10	NM_080444.4	Asb-10,BB137407,expressed sequence BB137407,MGI:2141266 A1256405,expressed sequence	ankyrin repeat and SOCS box-containing 10
Ccdc127	NM_024201.3	AW050060,MGI:1918606,MGI:2145196,MGI:2145408,RIKEN cDNA 0610011N22 gene,RIKEN cDNA 5430420E17 gene	coiled-coil domain containing 127
Cnot10	NM_153585.5	2600001P13RIK,RIKEN cDNA 2600001P13 gene	CCR4-NOT transcription complex, subunit 10
Csnk2a2	NM_009974.3	1110035J23RIK,C77789,CK2,expressed sequence C77789,MGD-MRK-2205,MGI:1915939,MGI:2142847,RIKEN cDNA 1110035J23 gene	casein kinase 2, alpha prime polypeptide
Fam104a	NM_138598.5	D11Wsu99e,DNA segment, Chr 11, Wayne State University 99, expressed,MGD-glucuronidase structural,beta-glucuronidase systemic regulator,beta-glucuronidase temporal,expressed sequence A1747421,g.Gur,Gus,Gus-r,Gus-s,Gus-t,Gus-u,Gut,MGD-MRK-10333,MGD-MRK-10334,MGD-MRK-10335,MGD-MRK-10336,MGD-MRK-10337,MGD-MRK-1413,MGD-MRK-19421,MGD-MRK-19422,MGD-MRK-	family with sequence similarity 104, member A
Gusb	NM_010368.1	2310045K21RIK,3110009I02RIK,AW536573,expressed sequence AW536573,MGI:1920310,MGI:2147367,mKIAA1352,RIKEN cDNA 2310045K21 gene,RIKEN cDNA 3110009I02 gene	glucuronidase, beta
Lars	NM_134137.2	2310039H01RIK,5730419A02RIK,MGI:1917779,RIKEN cDNA 2310039H01 gene,RIKEN cDNA 5730419A02 gene	leucyl-tRNA synthetase
Mto1	NM_026658.2	2610524B01RIK,6030455L14RIK,MGI:1924975,RIKEN cDNA 2610524B01 gene,RIKEN cDNA 6030455L14 gene	mitochondrial tRNA translation optimization 1
Supt7l	NM_028150.1	AA474455,expressed sequence AA474455, gene model 145,	suppressor of Ty 7-like
Tada2b	NM_001170454.1	general transcription factor IID,Gtf2d,MGD-MRK-18659,MGD-MRK-24009	transcriptional adaptor 2B
Tbp	NM_013684.3	D230045I08RIK,MGI:2444044,RIKEN cDNA D230045I08 gene	TATA box binding protein
Xpnppep1	NM_133216.3		X-prolyl aminopeptidase (aminopeptidase P) 1, soluble