

nCounter® Tumor Signaling 360 Panel - Gene and Probe Details

Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or Isoform information
Abcc1	NM_008576.3	ATP-binding cassette, sub-family C (CFTR/MRP), member 1,ATP-binding cassette, sub-family C (CFTR/MRP), member 1a,ATP-binding cassette, sub-family C (CFTR/MRP), member 1b,Abcc1,Abcc1a,Abcc1b,MGD-MRK-19579,MGI:2137380,MRP,Mdrap,Mrp1,multiple drug resistance-associated protein	ATP-binding cassette, sub-family C (CFTR/MRP), member 1	
Abcc4	NM_001033336.1	ATP-binding cassette, sub-family C (CFTR/MRP), member 4,Abcc4,D630049P08Rik,MOAT-B,MRP4,RIKEN cDNA D630049P08 gene	ATP-binding cassette, sub-family C (CFTR/MRP), member 4	
Abcg2	NM_011920.3	A1428558,ATP binding cassette subfamily G member 2 (Junior blood group),Abcg2,Bcrp,MGI:2141405,expressed sequence A1428558	ATP binding cassette subfamily G member 2 (Junior blood group)	
Abi1	NM_01077190.1	Abi1,E381,MGD-MRK-29067,Sh3bp1,abl-interactor 1,spectrin SH3 domain binding protein 1	abl-interactor 1	
Abi1	NM_009594.4	A1325092,Abi1,E430008G22Rik,MGD-MRK-1015,MGI:2138905,MGI:2443781,RIKEN cDNA E430008G22 gene,c-Abi,c-abl oncogene 1, non-receptor tyrosine kinase,expressed sequence A1325092	c-abl oncogene 1, non-receptor tyrosine kinase	
Ackr2	NM_001276719.1	A1464239,Ackr2,Ccbp2,D6,MGI:2143069,atypical chemokine receptor 2,chemokine binding protein 2,chemokine decoy receptor D6,expressed sequence A1464239	atypical chemokine receptor 2	
Ackr3	NM_007722.3	AW541270,Ackr3,Cmkor1,Cxc7,MGD-MRK-39561,MGI:2138598,Rdc1,atypical chemokine receptor 3,chemokine (C-X-C motif) receptor 7,chemokine orphan receptor 1,expressed sequence AW541270	atypical chemokine receptor 3	
Acot12	NM_028790.3	130000404Rik,4930449F15Rik,AV027244,Acot12,Cach,MGI:1922149,MGI:2145388,RIKEN cDNA 1300004004 gene,RIKEN cDNA 4930449F15 gene,acyl-CoA thioesterase 12,cytosolic acetyl-CoA hydrolase,expressed sequence AV027244	acyl-CoA thioesterase 12	
Acs13	NM_001136222.1	fatty acid Coenzyme A ligase, long chain 3,2610510B12Rik,Acs13,C85929,Fact3,MGI:2138711,RIKEN cDNA 2610510B12 gene,acyl-CoA synthetase long-chain family member 3,expressed sequence C85929,fatty acid Coenzyme A ligase, long chain 3	acyl-CoA synthetase long-chain family member 3	
Actg2	NM_009610.2	Act-4,Act4,Act3,Actg2,MGD-MRK-1075,MGD-MRK-26023,SMGA,actin related gene 4,actin, gamma 2, smooth muscle, enteric	actin, gamma 2, smooth muscle, enteric	
Adh1	NM_007409.3	ADH-AA,A1194826,Adh-1,Adh-1,Adh-1e,Adh-1,Adh1,Adh1-e,Adh1-t,Adh1t,MGD-MRK-1111,MGD-MRK-1112,MGD-MRK-1113,MGD-MRK-1115,MGD-MRK-1120,MGD-MRK-1121,MGD-MRK-1123,MGD-MRK-1124,MGI:2139643,MGI:87922,MGI:87924,MGI:87925,alcohol dehydrogenase 1 (class I),alcohol dehydrogenase 1 complex,alcohol dehydrogenase 1 temporal,alcohol dehydrogenase 1 temporal, liver,alcohol dehydrogenase 1, electrophoretic, class I alcohol dehydrogenase,expressed sequence A1194826	alcohol dehydrogenase 1 (class I)	
Adm	NM_009627.2	AM,Adm,MGD-MRK-37094,adrenomedullin	adrenomedullin	
Adora2a	NM_009630.3	A2AAR,A2a, Rs,A2aR,AA2AR,ARA2A,Adora2a,MGD-MRK-16163,adenosine A2a receptor	adenosine A2a receptor	
Adora2b	NM_007413.4	A2BAR,A2B,A2b,A2b, Rs,AA2BR,AI480866,AI605384,ARA2B,Adora2b,MGD-MRK-16164,MGI:2144194,MGI:2144239,adenosine A2b receptor,expressed sequence AI480866,expressed sequence AI605384	adenosine A2b receptor	
Ago2	NM_153178.4	1110029L17Rik,2310051F07Rik,A1225898,AU022874,AWS46247,Ago2,Eif2c2,MGI:1915972,MGI:1917438,MGI:2145960,MGI:2146112,MGI:2146228,RIKEN cDNA 1110029L17 gene,RIKEN cDNA 2310051F07 gene,argonate 2,argonate RISC catalytic subunit 2,eukaryotic translation initiation factor 2C, 2,expressed sequence A1225898,expressed sequence AU022874,expressed sequence AWS46247,mKIAA1567	argonate RISC catalytic subunit 2	
Ago4	NM_153177.3	5730550L01Rik,AI481660,Ago4,Eif2c4,MGI:2140312,RIKEN cDNA 5730550L01 gene,argonate 4,argonate RISC catalytic subunit 4,eukaryotic translation initiation factor 2C, 4,expressed sequence AI481660	argonate RISC catalytic subunit 4	
Aimp2	NM_001172146.1	AA407136,AA407225,Aimp2,Aimp2(p38),JTV1 gene,Jtv1,MGC:30261,MGC:36346,MGC:36522,MGC:37389,MGI:2140721,MGI:2140723,aminoacyl tRNA synthetase complex-interacting multifunctional protein 2,expressed sequence AA407136,expressed sequence AA407225	aminoacyl tRNA synthetase complex-interacting multifunctional protein 2	
Akt1	NM_001165894.1	Akt,Akt1,MGD-MRK-1257,PKB,PKB/Akt,PKBAlpha,thymoma viral proto-oncogene 1	thymoma viral proto-oncogene 1	
Akt1s1	NM_026270.4	1110012J22Rik,AI227026,AKT1 substrate 1 (proline-rich),Akt1s1,Lobe,MGI:2141884,PRAS40,RIKEN cDNA 1110012J22 gene,expressed sequence AI227026	AKT1 substrate 1 (proline-rich)	
Akt2	NM_001110208.1	2410016A19Rik,AWS54154,Akt2,MGD-MRK-28173,MGI:1923730,MGI:2142261,PKB,PKBbeta,RIKEN cDNA 2410016A19 gene,expressed sequence AWS54154,thymoma viral proto-oncogene 2	thymoma viral proto-oncogene 2	
Akt3	NM_011785.3	A1851531,Akt3,D930002M15Rik,MGI:2138357,MGI:3628555,Nmf350,PKB gamma,RIKEN cDNA D930002M15 gene,expressed sequence A1851531,neuroscience mutagenesis facility, 350,thymoma viral proto-oncogene 3	thymoma viral proto-oncogene 3	
Aldha1a3	NM_053080.3	ALDH6,Aldh1a3,RALDH3,V1,aldehyde dehydrogenase family 1, subfamily A3,retinaldehyde dehydrogenase 3	aldehyde dehydrogenase family 1, subfamily A3	
Aldoa	NM_007438.4	Aldo-1,Aldo1,Aldoa,MGD-MRK-1276,MGD-MRK-1278,aldolase 1 [Aldo-A isoform, skeletal muscle, brain],aldolase A, fructose-bisphosphate	aldolase A, fructose-bisphosphate	Aldoart2 (NM_00127340)
Alk	NM_007439.2	Alk,CD246,MGD-MRK-24189,Tcrz,anaplastic lymphoma kinase	anaplastic lymphoma kinase	
Amotl2	NM_019764.2	AW549739,Amotl2,C79691,Lccp,MASCOT,MGI:2143321,MGI:2143406,angiomin-like 2,expressed sequence AW549739,expressed sequence C79691,mKIAA0989	angiomin-like 2	
Angpt2	NM_007426.4	Ang-2,Ang2,Angpt2,angiopoietin 2	angiopoietin 2	
Apc	NM_007462.3	A1047805,APC,WNT signaling pathway regulator,AU020952,AW124434,Apc,CC1,MGD-MRK-1347,MGD-MRK-16245,MGI:2147196,MGI:2147309,MGI:2147352,Min,adenomatosis polyposis coli,expressed sequence A1047805,expressed sequence AU020952,expressed sequence AW124434,multiple intestinal neoplasia	APC, WNT signaling pathway regulator	
Ar	NM_013476.3	AW320017,Ar,MGD-MRK-1384,MGD-MRK-15046,MGI:2148007,Tfm,androgen receptor,expressed sequence AW320017,testicular feminization	androgen receptor	
Arg1	NM_007482.3	A1,A1256583,Arg-1,Arg1,MGD-MRK-1392,MGD-MRK-1393,MGI:2143548,PGIF,arginase, liver,expressed sequence A1256583	arginase, liver	
Arid1a	NM_001080819.1	1110030E03Rik,AT rich interactive domain 1A (SWI-like),Arid1a,BAF250a,MGI:1915989,Osa1,RIKEN cDNA 1110030E03 gene,SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily F, member 1,Smarcf1	AT rich interactive domain 1A (SWI-like)	
Arid1b	NM_001083555.1	9330189K18Rik,AI836955,AT rich interactive domain 1B (SWI-like),Arid1b,B230217J03Rik,MGI:1924763,MGI:2146926,RIKEN cDNA 9330189K18 gene,RIKEN cDNA B230217J03 gene,expressed sequence AI836955,mKIAA1235	AT rich interactive domain 1B (SWI-like)	
Arid2	NM_175251.4	1700124K17Rik,4432409D24Rik,AT rich interactive domain 2 (ARID, RFX-like),Arid2,MGI:1920892,RIKEN cDNA 1700124K17 gene,RIKEN cDNA 4432409D24 gene,zippa/p200	AT rich interactive domain 2 (ARID, RFX-like)	
Arid4a	NM_001081195.1	A630067N03Rik,AT rich interactive domain 4A (RBP1-like),Arid4a,RIKEN cDNA A630067N03 gene,Rbpb1,retinoblastoma binding protein 1	AT rich interactive domain 4A (RBP1-like)	
Arid4b	NM_194262.1	6330417L24Rik,6720480E17Rik,AT rich interactive domain 4B (RBP1-like),Arid4b,BRCAA1,MGI:1917988,MGI:1924943,RBPP1L1,RIKEN cDNA 6330417L24 gene,RIKEN cDNA 6720480E17 gene,Rbpb1,SAP180,retinoblastoma binding protein 1-like 1	AT rich interactive domain 4B (RBP1-like)	
Ash1	NM_138679.5	8030453L17Rik,ASH1 like histone lysine methyltransferase,Ash1,E430018P19Rik,KMT2H,MGI:2442216,MGI:2444414,RIKEN cDNA 8030453L17 gene,RIKEN cDNA E430018P19 gene,chromatin remodeling factor	ASH1 like histone lysine methyltransferase	
Asxl2	NM_001270988.1	4930556B16Rik,Asxl2,RIKEN cDNA 4930556B16 gene,additional sex combs like 2, transcriptional regulator,mKIAA1685	additional sex combs like 2, transcriptional regulator	
Atf2	NM_001284371.1	ATF-2,Atf2,CREB,Creb2,D130078H02Rik,D18875,MGD-MRK-23723,MGD-MRK-38394,MGI:2139537,MGI:2441951,MGI:2678345,RIKEN cDNA D130078H02 gene,Tg(Gzma-Kira1)7Wum,activating transcription factor 2,cAMP responsive element binding protein 2,expressed sequence D18875,mXBP,transgene insertion 7, Washington University School of Medicine	activating transcription factor 2	
Atf4	NM_009716.2	Atf-4,Atf4,C/ATF,CREB2,MGD-MRK-1444,MGD-MRK-1445,TAXREB67,activating transcription factor 4	activating transcription factor 4	
Atf7ip	NM_019426.2	2610204M12Rik,AM,ATFA-associated Modulator,Atf7ip,MGI:1919738,Mcaf1,RIKEN cDNA 2610204M12 gene,activating transcription factor 7 interacting protein	activating transcription factor 7 interacting protein	
Atg101	NM_026566.2	9430023L20Rik,AA407441,AU022967,Atg101,MGI:2145889,MGI:2146146,RIKEN cDNA 9430023L20 gene,autophagy related 101,expressed sequence AA407441,expressed sequence AU022967	autophagy related 101	
Atg2b	NM_029654.4	2410024A21Rik,AI047755,AI503411,AWS58123,Atg2b,C030004M05Rik,C630028L02Rik,MGI:1926114,MGI:2144758,MGI:2144850,MGI:2145049,MGI:2441919,RIKEN cDNA 2410024A21 gene,RIKEN cDNA C030004M05 gene,RIKEN cDNA C630028L02 gene,autophagy related 2B,expressed sequence AI047755,expressed sequence AI503411,expressed sequence AWS58123	autophagy related 2B	
Atg4b	NM_174874.3	2510009N07Rik,APG4 (ATG4) autophagy-related homolog B (S. cerevisiae),AW048066,App4b,Atg4b,MGI:2138547,RIKEN cDNA 2510009N07 gene,autophagin 1,autophagy related 4B, cysteine peptidase,expressed sequence AW048066	autophagy related 4B, cysteine peptidase	
Atm	NM_007499.2	A1256621,Atm,C030026E19Rik,MGD-MRK-35663,MGI:1924666,MGI:2143000,RIKEN cDNA C030026E19 gene,ataxia telangiectasia mutated,expressed sequence A1256621	ataxia telangiectasia mutated	
Atox1	NM_009720.2	A1256639,ATX1,Atox1,MGI:2144096,antioxidant 1 copper chaperone,expressed sequence A1256639	antioxidant 1 copper chaperone	
Atp7a	NM_001109757.2	ATPase, Cu++ transporting, alpha polypeptide,Atp7a,Blo,MGD-MRK-12339,MGD-MRK-1578,MGD-MRK-16161,MNK,Menkes protein,Mo,blotch,br,mottled	ATPase, Cu++ transporting, alpha polypeptide	
Atp7a	NM_019864.1	Atr,MGD-MRK-37064,ataxia telangiectasia and Rad3 related	ataxia telangiectasia and Rad3 related	
Atrx	NM_009530.2	4833408C14Rik,AI447451,ATRX, chromatin remodeler,Atrx,DNA segment, Chr X, human	ATRX, chromatin remodeler	
Atnx7	NM_139227.4	DXS6677E,DXHS6677E,HP1-BP38,Hp1bp2,MGD-MRK-16212,MGD-MRK-18764,MGD-MRK-23929,MGD-MRK-38415,MGI:109370,MGI:1914653,MGI:2147885,RAD54 homolog, (S. cerevisiae),RIKEN cDNA 4833408C14 gene,Rad54,X-linked nuclear protein,XH2,Xnp,alpha thalassemia/mental retardation syndrome X-linked,expressed sequence AI447451,heterochromatin protein 2, binding protein 2	atrxin 7	
Aurka	NM_011497.3	A430107N12Rik,AI627028,Atxn7,MGI:1925682,MGI:2145682,RIKEN cDNA A430107N12 gene,Sca7,ataxin 7,ataxin-7,expressed sequence AI627028,spinocerebellar ataxia 7 homolog (human)	ataxin 7	
Aurka	NM_011497.3	AIRK1,AU019385,AWS39821,Ark1,Aurka,Aurora-A,Ayk1,JAK1AK1,MGI:2139176,MGI:2139366,Stk6,aurora A,aurora kinase A,expressed sequence AU019385,expressed sequence AWS39821,serine/threonine kinase 6	aurora kinase A	

Aurkb	NM_011496.1	AIRK2,AL022959,Aik2,Aurkb,PL1,MGD-MRK-35629,MGI:2141535,STK-1,Stk12,Stk5,aurora B,aurora kinase B,expressed sequence AL022959,serine/threonine kinase 12,serine/threonine kinase 5	aurora kinase B
Axl	NM_009465.4	A1323647,AXL receptor tyrosine kinase,Ark,Axl,MGD-MRK-15343,MGI:2141908,MGI:98896,Tyro7,Ufo,expressed sequence A1323647,ufo oncogene homolog	AXL receptor tyrosine kinase
B2m	NM_009735.3	B2m,Ly-m11,MGD-MRK-12010,MGD-MRK-1492,beta 2 microglobulin,beta-2 microglobulin,beta-2-m,lymphocyte antigen m11	beta-2 microglobulin
B4galnt1	NM_001244618.1	4933429D13RIK,B4galnt1,GM2/GD2 synthase,Gal-Nac-T,GalNac-T,GalNacT,Galgt1,Ggm-2,Ggm2,MGD-MRK-10061,MGD-MRK-10063,MGI:1918507,MGI:95703,RIKEN cDNA 4933429D13 gene,UDP-N-acetyl-alpha-D-galactosamine:(N-acetylneuraminyl)-galactosylglucosylceramide-beta-1,4-N-acetylgalactosaminyltransferase,UDP-N-acetyl-alpha-D-galactosamine:(N-acetylneuraminyl)-galactosylglucosylceramide-beta-1,4-Nacetylgalactosaminyltransferase,beta-1,4-N-acetyl-galactosaminyl transferase 1,beta1,4GalNac-T,ganglioside expression 2	beta-1,4-N-acetyl-galactosaminyl transferase 1
B4galnt1	NM_022305.4	AA407245,B-1,4-GalT1,B4galnt1,GalT,Ggtb,Ggtb2,MGD-MRK-10067,MGI:2140118,MGI:891991,UDP-Gal-betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1,b1,4-Galactosyltransferase I,beta 1,4-Galactosyltransferase I,beta-1,4-GalT1,expressed sequence AA407245,galactosyltransferase 2 beta 1,4,4,glucoprotein galactosyltransferase beta 1,4	UDP-Gal-betaGlcNAc beta 1,4- galactosyltransferase, polypeptide 1
Bad	NM_007522.3	A1325008,BCL2-associated agonist of cell death,Bad,Bbc2,MGI:2147509,expressed sequence A1325008	BCL2-associated agonist of cell death
Bax	NM_007527.3	BCL2-associated X protein,Bax,MGD-MRK-16487	BCL2-associated X protein
Bcap31	NM_001313698.1	B cell receptor associated protein 31,BAP31,Bcap31	B cell receptor associated protein 31
Bcl2	NM_009741.3	AW986256,B cell leukemia/lymphoma 2,Bcl-2,Bcl2,C430015F12RIK,D630044D05RIK,D830018M01RIK,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,expressed sequence AW986256	B cell leukemia/lymphoma 2
Bcl2a1a	NM_009742.3	A1,B cell leukemia/lymphoma 2 related protein A1a,BB218357,Bcl-2-related protein A1,Bcl2a1,Bcl2a1a,Bfl-1,Hbpa1,MGD-MRK-18735,MGD-MRK-19590,MGI:2143372,expressed sequence BB218357,hematopoietic Bcl-2-related protein A1	B cell leukemia/lymphoma 2 related protein A1a
Bcl2l1	NM_009743.4	BCL2-like 1,Bcl(X),Bcl-XL,Bcl-Xs,Bcl2l1,BclX,MGD-MRK-1527,bcl-x	BCL2-like 1
Bhlhb2	NM_011498.4	Bhlhb2,Bhlhb40,C130042M06RIK,CR8,Clast5,DECL1,MGI:2443526,RIKEN cDNA C130042M06 gene,Sharp2,Str13,Str14,basic helix-loop-helix domain containing, class B2,basic helix-loop-helix family, member e40,cytokine response gene 8,eip1,[E47 interaction protein 1],stimulated by retinoic acid 14	basic helix-loop-helix family, member e40
Birc3	NM_007464.3	AW107670,Api2,Birc3,HIAP2,IAP2,MGI:2143290,MIAP2,MIHC,RNF49,apoptosis inhibitor 1,baculoviral IAP repeat-containing 3,cIAP-2,cIAP2,expressed sequence AW107670	baculoviral IAP repeat-containing 3
Birc5	NM_009689.2	Api4,Birc5,MGI:1196343,TIAP,apoptosis inhibitor 4,baculoviral IAP repeat-containing 5,survivin	baculoviral IAP repeat-containing 5
Bik	NM_007549.2	B lymphoid kinase,Bik,MGD-MRK-1577	B lymphoid kinase
Blm	NM_001042527.2	Blm,Bloom syndrome,RecQ like helicase	Bloom syndrome, RecQ like helicase
Bmpr1a	NM_009758.4	1110037122RIK,ALU3,AU045487,BMPRI-IA,Bmpr,Bmpr1a,MGD-MRK-1605,MGI:1915998,MGI:2145761,MGI:88183,RIKEN cDNA 1110037122 gene,bone morphogenetic protein receptor, type 1A,bone morphogenetic receptor for Bmp2 and Bmp4,expressed sequence AU045487	bone morphogenetic protein receptor, type 1A
Bmpr2	NM_007561.3	2610024H22RIK,AL117858,AW546137,BB189135,BMP-2,BMPRII,Bmpr2,MGI:19116460,MGI:2138603,MGI:2138646,MGI:3034681,RIKEN cDNA 2610024H22 gene,bone morphogenetic protein receptor, type II (serine/threonine kinase),expressed sequence AL117858,expressed sequence AW546137,expressed sequence BB189135	bone morphogenetic protein receptor, type II (serine/threonine kinase)
Braf	NM_139294.5	9930012E13RIK,AA120551,AA387315,AA473386,Braf,Braf transforming gene,Braf transforming gene 2,Braf-2,Braf2,C87398,D6Ert0631e,DNA segment, Chr 6, ERATO Doi 631, expressed,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,expressed sequence AA120551,expressed sequence AA387315,expressed sequence AA473386,expressed sequence C87398	Braf transforming gene
Brc1a	NM_009764.3	Brc1a,MGD-MRK-25968,breast cancer 1, early onset	breast cancer 1, early onset
Brc1a2	NM_009765.3	A1256696,AW045498,Brc1a2,Fancd1,MGD-MRK-38382,MGI:2140824,MGI:2141125,RAB163,breast cancer 2, early onset,expressed sequence A1256696,expressed sequence AW045498	breast cancer 2, early onset
Brip1	NM_178309.2	3110009N10RIK,8030460J03RIK,BACH1,BRCA1 interacting protein C-terminal helicase 1,Brip1,MGI:1920358,RIKEN cDNA 3110009N10 gene,RIKEN cDNA 8030460J03 gene	BRCA1 interacting protein C-terminal helicase 1
Brms1	NM_134155.1	AV003220,AW554636,Brms1,MGI:2147665,MGI:2147748,breast cancer metastasis-suppressor 1,expressed sequence AV003220,expressed sequence AW554636	breast cancer metastasis-suppressor 1
Btk	NM_013482.2	A1528679,Bruton agammaglobulinemia tyrosine kinase,Bruton's tyrosine kinase,Btk,MGD-MRK-15473,MGD-MRK-1683,MGI:2147899,X-linked immune deficiency,expressed sequence A1528679,xid	Bruton agammaglobulinemia tyrosine kinase
Bub1	NM_001113179.1	AL022991,BUB1, mitotic checkpoint serine/threonine kinase,Bub1,Bub1a,C80208,D2Xf87,DNA segment, Chr 2, XREFdb 87,MGD-MRK-32317,MGI:105276,MGI:2139128,MGI:2139498,expressed sequence AL022991,expressed sequence C80208	BUB1, mitotic checkpoint serine/threonine kinase
Bub1b	NM_009773.3	AU045529,BUB1b, mitotic checkpoint serine/threonine kinase,BUBR1,Bub1b,MGI:2139222,expressed sequence AU045529	BUB1b, mitotic checkpoint serine/threonine kinase
Bysl	NM_016859.3	Bysl,Enp1,bystin-like	bystin-like
C3ar1	NM_009779.2	C3ar,C3ar1,anaphylatoxin C3a receptor,complement component 3a receptor 1	complement component 3a receptor 1
Cacybp	NM_009786.2	Cacybp,cacyclin binding protein	cacyclin binding protein
Calml3	NM_027416.3	2310068022RIK,A1326174,Calml3,MGI:2145218,RIKEN cDNA 2310068022 gene,calmodulin-like 3,expressed sequence A1326174	calmodulin-like 3
Car9	NM_139305.2	CAIX,Car9,MM/CA9,carbonic anhydrase 9	carbonic anhydrase 9
Card11	NM_175362.2	0610008L17RIK,Z41001D02RIK,BIMP3,CARMA1,Card11,MGI:1915575,RIKEN cDNA 0610008L17 gene,RIKEN cDNA 241001D02 gene,caspase recruitment domain family, member 11	caspase recruitment domain family, member 11
Casp3	NM_009810.2	A830040C14RIK,AC-3,Apopain,CC3,PPP32,Casp3,Caspase-3,MGD-MRK-36315,MGI:2442726,MGI:3717434,RIKEN cDNA A830040C14 gene,Yama,caspase 3,meelody,mildy	caspase 3
Cav1	NM_001243064.1	Cav-1,Cav1,MGD-MRK-19613,caveolin 1, caveolae protein,caveolin-1	caveolin 1, caveolae protein
Cbx2	NM_007623.2	Cbx2,M33,MGD-MRK-1793,chromobox 2	chromobox 2
Ccl12	NM_011331.2	Ccl12,MCP-5,MGD-MRK-37263,Scy12,chemokine (C-C motif) ligand 12,small inducible cytokine A12	chemokine (C-C motif) ligand 12
Ccl19	NM_011888.2	CKb11,Ccl19,Scy19,chemokine (C-C motif) ligand 19,exodus 3,small inducible cytokine A19	chemokine (C-C motif) ligand 19
Ccl2	NM_011333.3	A1323594,Ccl2,HCC11,MCAP,MCP-1,MCP1,MGD-MRK-14333,MGD-MRK-14413,MGI:2144120,SMC-CF,Scy2,Sigle,chemokine (C-C motif) ligand 2,expressed sequence A1323594,monocyte chemoattractant protein-1,monocyte chemoattractant protein,small inducible cytokine A2,small inducible gene JE	chemokine (C-C motif) ligand 2
Ccl21a	NM_011124.4	2,MGI:1270157,MGI:2140627,S1C,Scy21,Scy21b,Tca4,chemokine (C-C motif) ligand 21A (serine),expressed sequence AW987545,small inducible cytokine A21,small inducible cytokine A21b (leucine),small inducible cytokine A21b (leucine)	Ccl21c (NM_023052), Gm10591 (NM_001193668), Gm13304 (NM_001193666), Gm21541 (NM_001270360), Ccl21b (NM_011335), Gm1987 (NM_001193667)
Ccl4	NM_013652.1	A7744.1,Act-2,Ccl4,MGD-MRK-12242,MGD-MRK-14335,MIP-1 beta,MIP-1B,Mip1b,Scy44,chemokine (C-C motif) ligand 4,macrophage inflammatory protein-1 beta,small inducible cytokine A4	chemokine (C-C motif) ligand 4
Ccl5	NM_013653.1	Ccl5,MGD-MRK-14336,MuRantes,RANTES,S1Sd,Scy5,TCP228,chemokine (C-C motif) ligand 5,small inducible cytokine A5	chemokine (C-C motif) ligand 5
Ccna2	NM_009828.2	AA408589,Ccn-1,Ccn1,Ccna,Ccna2,CycA2,CycA,MGD-MRK-1805,MGD-MRK-1807,MGD-MRK-1809,MGD-MRK-2264,MGD-MRK-37106,MGI:2139562,cyclin A,cyclin A2,expressed sequence AA408589	cyclin A2
Ccnb1	NM_172301.3	Ccnb1,Ccnb1-rs13,Cycb-4,MGC:18763,MGD-MRK-1814,MGD-MRK-2269,cyclin B1,cyclin B1, related sequence 13,cyclin B4	cyclin B1
Ccnb2	NM_007630.2	Ccnb2,CycB2,MGD-MRK-1823,cyclin B2	cyclin B2
Ccnd1	NM_007631.2	A1327039,Ccnd1,CyclD1,Cyl-1,MGD-MRK-1825,MGI:2141923,PRAD1,bcl-1,cD1,cyclin D1,expressed sequence A1327039	cyclin D1
Ccnd2	NM_009829.3	2600016F06RIK,A1256817,BF642806,C86853,Ccnd2,EST A1256817,MGD-MRK-15396,MGD-MRK-15397,MGD-MRK-1826,MGI:1353647,MGI:1913821,MGI:2141781,MGI:2683668,RIKEN cDNA 2600016F06 gene,Vin-1,Vin1,cD2,cyclin D2,expressed sequence BF642806,expressed sequence C86853,viral integration site, radiation leukemia	cyclin D2
Ccne1	NM_007633.2	AW538188,Ccne1,CycE1,MGD-MRK-1828,MGI:2142245,cyclin E,cyclin E1,expressed sequence AW538188	cyclin E1
Ccne2	NM_001037134.1	Ccne2,cyclin E2	cyclin E2
Ccnf	NM_007634.4	Ccnf,CycF,Fbox1,MGD-MRK-19400,cyclin F	cyclin F
Ccnk	NM_009832.1	AW123198,AW413594,CPR4,Ccnk,CykK,MGI:2145008,MGI:2145025,cyclin K,expressed sequence AW123198,expressed sequence AW413594	cyclin K
Ccnt1	NM_001368702.1	2810478G24RIK,A1115585,Ccnt1,CycT1,MGI:1920080,MGI:2145948,RIKEN cDNA 2810478G24 gene,cyclin T1,expressed sequence A1115585	cyclin T1
Ccr1	NM_009912.4	Ccr1,Cmkb1r,MGD-MRK-26055,chemokine (C-C motif) receptor 1,chemokine (C-C) receptor 1	chemokine (C-C motif) receptor 1
Ccr2	NM_009915.2	CC-CR-2,CCR2A,CCR2B,CCR2,CCR2A,CCR2B,Ccr2,Cmkb2,MGD-MRK-33876,chemokine (C-C motif) receptor 2	chemokine (C-C motif) receptor 2
Ccr4	NM_009916.2	CC-CR-4,Ccr4,Cmkb4r4,MGD-MRK-36401,MGD-MRK-37445,chemokine (C-C motif) receptor 4,chemokine (C-C) receptor 4	chemokine (C-C motif) receptor 4
Ccr5	NM_009917.5	CD195,Ccr5,Cmkb5r,MGD-MRK-35643,chemokine (C-C motif) receptor 5,chemokine (C-C) receptor 5	chemokine (C-C motif) receptor 5
Ccr7	NM_007719.2	CD197,Ccr7,Cmkb7r,EBI1,EB1h,Epstein-Barr virus induced gene 1 homolog,MGD-MRK-23848,chemokine (C-C motif) receptor 7,chemokine (C-C) receptor 7	chemokine (C-C motif) receptor 7

Ccs	XM_006531645.1	CCS,Ccs,copper chaperone for superoxide dismutase	copper chaperone for superoxide dismutase
Cd14	NM_009841.3	CD14 antigen,Cd14,MGD-MRK-1831	CD14 antigen
Cd163	NM_053094.2	CD163 antigen,Cd163	CD163 antigen
Cd19	NM_009844.2	AW495831,CD19 antigen,Cd19,MGD-MRK-1833,MGI:2142241,expressed sequence AW495831	CD19 antigen
Cd209e	NM_130905.2	CD209e antigen,Cd209e,SIGNR4,mSIGNR4	CD209e antigen
Cd22	NM_001043317.2	B-lymphocyte antigen 8,Cd22 antigen,Cd22,Lyb-8,Lyb8,MGD-MRK-12060,MGD-MRK-12066,MGD-MRK-1839 2B4,C9.1,CD244 molecule,CD244 molecule A,CD244 natural killer cell receptor 2B4,Cd244,Cd244a,F730046015RIK,MGD-MRK-38339,MGI:2442562,Nmrk,RIKEN cDNA F730046015 gene,non MHC restricted killing associated sequence AW552088	CD22 antigen
Cd244a	NM_018729.2	4930549J05RIK,AW552088,CD247 antigen,CD3 antigen, eta polypeptide,CD3 antigen, zeta polypeptide,CD3 zeta,CD3-eta,CD3-zeta,CD3-zeta/eta,CD3zeta,Cd247,Cd3h,Cd3z,MGD-MRK-14699,MGD-MRK-14930,MGD-MRK- 1855,MGD-MRK-1856,MGD-MRK-1857,MGI:1922598,MGI:2138612,RIKEN cDNA 4930549J05 gene,T-cell receptor zeta chain,T3-zeta chain,T3z,TCRk,Tcrz,expressed sequence AW552088	CD244 molecule A
Cd247	NM_001113391.2	CD247 antigen,Cd27,MGD-MRK-1844,S152,Tnfrsf7,Tp55,tumor necrosis factor receptor superfamily, member 7 B7-H1,CD274 antigen,Cd274,PD-L1,Pdcd1lg1,programmed cell death 1 ligand 1 6030411F23RIK,AU016588,B7 homolog 3,B7-H3,B7RP-2,B7h3,CD276 antigen,Cd276,MGI:2143194,RIKEN cDNA 6030411F23 gene,expressed sequence AU016588	CD247 antigen
Cd27	NM_001042564.1	CD27 antigen,Cd27,MGD-MRK-1844,S152,Tnfrsf7,Tp55,tumor necrosis factor receptor superfamily, member 7	CD27 antigen
Cd274	NM_021893.2	B7-H1,CD274 antigen,Cd274,PD-L1,Pdcd1lg1,programmed cell death 1 ligand 1 6030411F23RIK,AU016588,B7 homolog 3,B7-H3,B7RP-2,B7h3,CD276 antigen,Cd276,MGI:2143194,RIKEN cDNA 6030411F23 gene,expressed sequence AU016588	CD274 antigen
Cd276	NM_133983.4	CD276 antigen	CD276 antigen
Cd28	NM_007642.4	CD28 antigen,Cd28,MGD-MRK-1845	CD28 antigen
Cd300a	NM_170758.3	B230315M08RIK,CD300A molecule,CD300a,Clm8,LMIR1,MAIR-1,MMAC8,Pigr4,RIKEN cDNA B230315M08 gene	CD300A molecule
Cd33	NM_001111058.1	CD33 antigen,Cd33,MGD-MRK-16204,Siglec-3,gp67	CD33 antigen
Cd34	NM_001111059.1	AU040960,CD34 antigen,Cd34,MGD-MRK-1849,MGI:2138487,expressed sequence AU040960	CD34 antigen
Cd38	NM_007646.5	CD38 antigen,CD38 antigen, related sequence 1,Cd38,CD38-rs1,MGD-MRK-1851,MGD-MRK-36041	CD38 antigen
Cd3d	NM_013487.2	CD3 antigen, delta polypeptide,Cd3d,MGD-MRK-14696,MGD-MRK-1852,T3-delta chain,T3d AI504783,CD3,CD3 antigen, epsilon polypeptide,CD3epsilon,CD3e,MGD-MRK-14697,MGD-MRK- 1853,MGI:2143086,T3-epsilon chain,T3e,expressed sequence AI504783	CD3 antigen, delta polypeptide
Cd3e	NM_007648.4	CD3 antigen, epsilon polypeptide,CD3epsilon,CD3e,MGD-MRK-14697,MGD-MRK- 1853,MGI:2143086,T3-epsilon chain,T3e,expressed sequence AI504783	CD3 antigen, epsilon polypeptide
Cd3g	NM_009850.2	CD3 antigen, gamma polypeptide,Cd3g,Ctg-3,Ctg3,MGD-MRK-14698,MGD-MRK-1854,MGD-MRK-2212,MGD-MRK- 2213,T3-gamma chain,T3g	CD3 antigen, gamma polypeptide
Cd4	NM_013488.2	CD4 antigen,Cd4,L3T4,Ly-4,MGD-MRK-11981,MGD-MRK-1858,lymphocyte antigen 4 AI326936,Bp50,CD40 antigen,Cd40,MGD-MRK-1859,MGI:2138913,Tnfrsf5,expressed sequence	CD4 antigen
Cd40	NM_170702.2	AI326936,p50,tumor necrosis factor receptor superfamily, member 5 CD154,CD40 antigen ligand,CD40 ligand,Cd40L,Cd40L,CD40L,HIGM1,IMD3,Ly-62,Ly62,MGD-MRK-12004,MGD- MRK-12047,MGD-MRK-1860,T-BAM,Tnfrsf5,gp39,lymphocyte antigen 62,tumor necrosis factor (ligand) superfamily, member 5	CD40 antigen
Cd40lg	NM_011616.2	superfamily, member 5	CD40 ligand
Cd44	NM_009851.2	AU023126,AW121933,AW146109,CD44 antigen,Cd44,HERMES,Ly-24,MGD-MRK-11964,MGD-MRK-13281,MGD- MRK-1863,MGI:2139311,MGI:2139322,MGI:3035411,Pgp-1,expressed sequence AU023126,expressed sequence AW121933,expressed sequence AW146109,lymphocyte antigen 24,phagocyte glycoprotein 1 9130415E20RIK,AA407862,AI848868,AW108519,B430305P08RIK,CD47 antigen (Rh-related antigen, integrin- associated signal transducer),Cd47,IAP,Itpg,MGD-MRK- 11496,MGI:1918837,MGI:1925789,MGI:2146333,MGI:2146503,MGI:2146621,RIKEN cDNA 9130415E20 gene,RIKEN cDNA B430305P08 gene,expressed sequence AA407862,expressed sequence AI848868,expressed sequence AW108519,integrin-associated protein	CD44 antigen
Cd47	NM_010581.3	AI326936,CD53 antigen,Cd53,MGD-MRK-1867,MGI:2139674,Ox-44,Tspan25,expressed sequence AI326936	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)
Cd53	NM_007651.3	AI326936,CD53 antigen,Cd53,MGD-MRK-1867,MGI:2139674,Ox-44,Tspan25,expressed sequence AI326936	CD53 antigen
Cd6	NM_001037801.2	CD6 antigen,Cd6,MGD-MRK-24451	CD6 antigen
Cd68	NM_001291058.1	CD68 antigen,Cd68,Lamp4,MGD-MRK-1868,Scard1,gp110,macrosialin B7-1,B7.1,CD28 antigen ligand,CD80 antigen,Cd281,Cd80,Ly-53,Ly53,MGD-MRK-11996,MGD-MRK-12039,MGD- MRK-1846,MGD-MRK-18582,lymphocyte antigen 53	CD68 antigen
Cd80	NM_009855.2	CD80 antigen	CD80 antigen
Cd84	NM_001252472.1	A130013D22RIK,CD84 antigen,Cd84,MGD-MRK-1849,MGI:2444272,RIKEN cDNA A130013D22 gene,SLAMF5 B7-2,B7.2,B70,CD28 antigen ligand,CD86 antigen,Cd281,Cd86,Ly-58,Ly58,MB7-2,MGD-MRK-12000,MGD-MRK- 12043,MGD-MRK-18572,MGD-MRK-18580,lymphocyte antigen 58 BB154331,CD8 antigen, alpha chain,Cd8a,Ly-2,Ly-35,Ly-8,Lyt-2,MGD-MRK-11958,MGD-MRK-11976,MGD-MRK- 12074,MGD-MRK-1872,MGI:2141733,T-lymphocyte antigen 2,expressed sequence BB154331,lymphocyte antigen 2,lymphocyte antigen 35	CD84 antigen
Cd86	NM_019388.3	BB154331,CD8 antigen, alpha chain,Cd8a,Ly-2,Ly-35,Ly-8,Lyt-2,MGD-MRK-11958,MGD-MRK-11976,MGD-MRK- 12074,MGD-MRK-1872,MGI:2141733,T-lymphocyte antigen 2,expressed sequence BB154331,lymphocyte antigen 2,lymphocyte antigen 35	CD86 antigen
Cd8a	NM_001081110.2	CD8 antigen, alpha chain	CD8 antigen, alpha chain
Cd8b1	NM_009858.2	CD8 antigen, beta chain 1	CD8 antigen, beta chain 1
Cdc20	NM_023223.2	2310042N09RIK,C87100,Cdc20,MGI:1913810,MGI:2146726,RIKEN cDNA 2310042N09 gene,cell division cycle 20,expressed sequence C87100,p55CDC Cdc25a,D9Ert939e,DNA segment, Chr 9, ERATO Doi 393, expressed,MGD-MRK-24066,MGI:1196333,cell division cycle 25A	cell division cycle 20
Cdc25a	NM_007658.3	Cdc25,cell division cycle 25A	cell division cycle 25A
Cdc25c	NM_009860.2	Cdc25,cell division cycle 25C	cell division cycle 25C
Cdca5	NM_026410.3	2610036L13RIK,AL024086,AW536684,C85404,Cdca5,MGI:2147629,MGI:2147737,MGI:2147801,RIKEN cDNA 2610036L13 gene,cell division cycle associated 5,expressed sequence AL024086,expressed sequence AW536684,expressed sequence C85404,sororin p35 4831429I16RIK,AU044747,Borealin,Cdca8,D4Ert421e,DNA segment, Chr 4, ERATO Doi 421, expressed,Dasra8,MGI:1915355,MGI:2140495,RIKEN cDNA 4831429I16 gene,cell division cycle associated 8,expressed sequence AU044747	cell division cycle associated 5
Cdca8	NM_026560.4	9030022E12RIK,AA409659,CUB domain containing protein 1,Cdcp1,E030027H19RIK,MGI:1925928,MGI:2142933,RIKEN cDNA 9030022E12 gene,RIKEN cDNA E030027H19 gene,expressed sequence AA409659	cell division cycle associated 8
Cdcp1	NM_133974.3	CUB domain containing protein 1	CUB domain containing protein 1
Cdh1	NM_009864.2	AA90649,Cdh1,E-cad,Cadherin,Ecad,L-CAM,MGD-MRK-15349,MGD-MRK-1881,MGD-MRK- 19360,MGI:2142457,UM,Um,cadherin 1,expressed sequence AA90649,uvomorulin	cadherin 1
Cdh11	NM_009866.4	Cad11,Cdh11,MGD-MRK-15974,OB-cadherin,cadherin 11,osteoblast-cadherin 7B4/cadherin-5,AA408225,CD144,Cdh5,MGD-MRK-32096,MGI:2142402,VE-Cad,VE- cadherin,VEC,VECD,VEcad,cadherin 5,expressed sequence AA408225	cadherin 11
Cdh5	NM_009868.3	VE-cadherin,VEC,VECD,VEcad,cadherin 5,expressed sequence AA408225	cadherin 5
Cdk1	NM_007659.3	Cdc2,Cdc2a,Cdk1,MGD-MRK-1878,cell division cycle 2 homolog A (S. pombe),cyclin-dependent kinase 1,p34-CDC2- 1810022I16RIK,AI646528,CDC2-related kinase 7,CDC2-related kinase, arginine/serine- rich,Cdk12,Crk7,Ckr3,D11Ert752e,DNA segment, Chr 11, ERATO Doi 752, expressed,MGI:1289232,MGI:1916381,MGI:2144249,RIKEN cDNA 1810022I16 gene,cyclin-dependent kinase 12,expressed sequence AI646528	cyclin-dependent kinase 1
Cdk12	NM_026952.2	cyclin-dependent kinase 12	cyclin-dependent kinase 12
Cdk2	NM_016756.4	A630093N05RIK,Cdk2,MGD-MRK-28064,MGI:2443873,RIKEN cDNA A630093N05 gene,cyclin-dependent kinase 2 CDC2-related kinase 3,Cdk4,Crk3,MGD-MRK-1884,MGD-MRK-2147,MGI:88504,cyclin-dependent kinase 4,p34-PSK-I3>/cdk4	cyclin-dependent kinase 2
Cdk4	NM_009870.3	cyclin-dependent kinase 4	cyclin-dependent kinase 4
Cdk6	NM_009873.2	A150462,CDC2-related kinase 2,Cdk6,Crk2,MGD-MRK-2146,MGI:2140921,MGI:88503,cyclin-dependent kinase 6,expressed sequence A150462	cyclin-dependent kinase 6
Cdkn1a	NM_007669.5	CAP20,CDK1,CIP1,Cdkn1a,Cdkn1a,MGD-MRK-16760,MGD-MRK-25990,P21,SDI1,Waf1,cyclin dependent kinase inhibitor,cyclin-dependent kinase inhibitor 1A (P21),mda6,p21<WAF1>/CIP1>,p21CIP1,p21WAF	cyclin-dependent kinase inhibitor 1A (P21)
Cdkn2a	NM_009877.2	ARF-INK4a,Arf,Cdkn2a,INK4a-ARF,INK4a/Arf,MGD-MRK-23975,MGD-MRK-27101,MGI:103111,MTS1,Pctr1,cyclin dependent kinase inhibitor 2A,p16,p16INK4a,p19<ARF>/p19ARF,plasmacytoma resistance 1 Bgp,Bgp1,C-CAM,CD66a,Ccl1,Cea-1,Cea-7,Cea1,Cea7,Ceacam1,Hv-2,Hv2,MGD-MRK-11017,MGD-MRK-11019,MGD- MRK-12228,MGD-MRK-1555,MGD-MRK-16442,MGD-MRK-1902,MGD-MRK-1908,MGD-MRK-1909,MGD-MRK- 1915,MGI:88366,MGI:88372,MGI:96289,MGI:99657,MHV-1,Mhv-1,biliary glycoprotein,biliary glycoprotein 1,carcinoembryonic antigen 1,carcinoembryonic antigen 7,carcinoembryonic antigen-related cell adhesion molecule 1,hepatitis virus (MHV-4) susceptibility,mCEA1,mmCGM1,mmCGM2,resistance to MHV (A59) replication in macrophages AI267129,Bgp2,Ceacam2,MGD-MRK-16441,MGI:2141896,MGI:99656,biliary glycoprotein 2,carcinoembryonic antigen-related cell adhesion molecule 2,expressed sequence AI267129	cyclin dependent kinase inhibitor 2A
Ceacam1	NM_001039185.1	carcinoembryonic antigen-related cell adhesion molecule 1	carcinoembryonic antigen-related cell adhesion molecule 1
Ceacam2	NM_007543.4	carcinoembryonic antigen-related cell adhesion molecule 2	carcinoembryonic antigen-related cell adhesion molecule 2
Ceacam3	NM_054059.1	Ceacam3,EG384557,MGI:1891356,Psq2,carcinoembryonic antigen-related cell adhesion molecule 3,cea12,predicted gene,EG384557,pregnancy-specific glycoprotein 24	carcinoembryonic antigen-related cell adhesion molecule 3
Cenpa	NM_007681.2	Cenp-A,Cenpa,MGD-MRK-1939,centromere protein A,centrosomin A 2310024N18RIK,A430105C05RIK,AI646576,AU021929,CASP8 and FADD-like apoptosis regulator,Cash,Casper,Cflar,Flip,MGI:1096876,MGI:1916820,MGI:1925024,MGI:2138307,MGI:2138466,RIKEN cDNA 2310024N18 gene,RIKEN cDNA A430105C05 gene,c-Filp,caspase homolog,expressed sequence AI646576,expressed sequence AU021929	centromere protein A
Cflar	NM_207653.3	CASP8 and FADD-like apoptosis regulator	CASP8 and FADD-like apoptosis regulator
Cgas	NM_173386.4	CGas,E330016A19RIK,Mab-21 domain containing 1,Mb21d1,RIKEN cDNA E330016A19 gene,cyclic GMP-AMP synthase	Sub-maximal transcript coverage due to non- overlapping transcripts cyclic GMP-AMP synthase
Chd8	NM_201637.2	5830451P18RIK,AU015341,Chd8,Duplin,MGI:2145721,MGI:3510543,RIKEN cDNA 5830451P18 gene,axial duplication inhibitor,chromodomain helicase DNA binding protein 8,expressed sequence AU015341,mkIAA1564	chromodomain helicase DNA binding protein 8
Chk1	NM_007691.5	C85740,Chk1,Chk1,MGI:2143427,checkpoint kinase 1,expressed sequence C85740	checkpoint kinase 1
Chk2	NM_016681.3	CHK2,Chk2,RAD53 homolog (S. cerevisiae),Rad53,checkpoint kinase 2	checkpoint kinase 2

Chmp2a	NM_001360731.1	1500016L11Rik,Chmp2a,RIKEN cDNA 1500016L11 gene,charged multivesicular body protein 2A,chromatin modifying protein 2A	charged multivesicular body protein 2A	
Chuk	NM_001162410.1	A1256658,Chuk,Chuk1,JKK 1,JKK alpha,JKK-1,JKK-alpha,JKK1,JKK[a],JKKalpha,JKkappB kinase alpha,MGD-MRK-16258,MGI:2147493,conserved helix-loop-helix ubiquitous kinase,expressed sequence A1256658	conserved helix-loop-helix ubiquitous kinase	
Clock	NM_001289826.1	5330400M04Rik,Clock,KAT13D,MGD-MRK-16483,MGI:2442107,RIKEN cDNA 5330400M04 gene,bHLHe8,circadian locomotor output cycles kaput,mKIAA0334	circadian locomotor output cycles kaput	
Clspn	NM_175554.4	C85083,Clspn,E130314M08Rik,MGI:2140694,RIKEN cDNA E130314M08 gene,claspin,expressed sequence C85083	claspin	
Cmklr1	NM_008153.3	ChemR23,Cmklr1,G-protein coupled receptor 27,Gpcr27,MGD-MRK-39602,chemokine-like receptor 1	chemokine-like receptor 1	
Col4a1	NM_009931.2	Bru,Col4a-1,Col4a1,Del(8)44H,Del(8)Bru44H,MGD-MRK-1671,MGD-MRK-2066,MGD-MRK-2068,MGI:1890530,MGI:1890533,MGI:88206,Raw,Svc,alpha1[IV] collagen,bruised,collagen, type IV, alpha 1,procollagen type IV, alpha 1,retinal arteriolar wiring,small with vacuolar cataract	collagen, type IV, alpha 1	
Col4a2	NM_009932.4	AU019502,Col4a-2,Col4a2,MGC:7371,MGD-MRK-2067,MGD-MRK-2069,MGI:2142691,collagen, type IV, alpha 2,expressed sequence AU019502,procollagen type IV, alpha 2	collagen, type IV, alpha 2	
Col6a1	NM_009933.2	A174156,Col6a-1,Col6a1,MGD-MRK-2073,MGD-MRK-2076,MGI:2143667,collagen, type VI, alpha 1,expressed sequence A174156,procollagen type VI, alpha 1	collagen, type VI, alpha 1	
Col6a2	NM_146007.2	Col6a-2,Col6a2,MGD-MRK-2074,MGD-MRK-2077,collagen, type VI, alpha 2,procollagen type VI, alpha 2	collagen, type VI, alpha 2	
Col6a3	NM_001243008.1	A1507288,Col6a-3,Col6a3,MGD-MRK-2075,MGD-MRK-2078,MGI:2138284,collagen, type VI, alpha 3,expressed sequence A1507288,procollagen type VI, alpha 3	collagen, type VI, alpha 3	
Cop1	NM_011931.3	A1316802,C80879,COP1, E3 ubiquitin ligase,Cop1,MGI:2138201,MGI:2138696,Rfdw2,expressed sequence A1316802,expressed sequence C80879,ring finger and WD repeat domain 2	COP1, E3 ubiquitin ligase	
Cox5b	NM_009942.2	Cox5b,MGD-MRK-2099,cytochrome c oxidase subunit 5B	cytochrome c oxidase subunit 5B	
Cpa3	NM_007753.2	MC-CPA,MGD-MRK-2103,carboxypeptidase A3, mast cell,mMC-CPA,mast cell carboxypeptidase A	carboxypeptidase A3, mast cell	
Cpt2	NM_009949.2	A1323697,CPT II,CPTII,Cpt2,MGD-MRK-38220,MGI:2140234,carnitine palmitoyltransferase 2,expressed sequence A1323697	carnitine palmitoyltransferase 2	
Creb1	NM_001037726.1	2310001E10Rik,3526402H21Rik,AV083133,Creb,Creb-1,Creb1,MGD-MRK-2134,MGD-MRK-2135,MGD-MRK-2136,MGI:1913601,MGI:1913933,MGI:2138519,RIKEN cDNA 2310001E10 gene,RIKEN cDNA 3526402H21 gene,cAMP responsive element binding protein 1,cyclic AMP responsive element binding protein,expressed sequence AV083133	cAMP responsive element binding protein 1	
Crebbp	NM_001025432.1	AW558298,CBP,CREB binding protein,Crebbp,KAT3A,MGI:2146668,expressed sequence AW558298	CREB binding protein	
Crk	NM_133656.5	Crk,Crk-I,Crk-II,Crk-III,Crko,MGD-MRK-2151,proto-oncogene c-crk,v-crk avian sarcoma virus CT10 oncogene homolog,v-crk sarcoma virus CT10 oncogene homolog (avian)	v-crk avian sarcoma virus CT10 oncogene homolog	
Csf1r	NM_001037859.2	A123359,CD115,CSF-1R,Csf1r,Csfmr,Fim-2,Fim2,Fms,Friend MuLV integration site 2,M-CSFR,MGD-MRK-2192,MGD-MRK-9798,MGD-MRK-9845,MGI:2147208,MGI:88535,c-fms oncogene,colony stimulating factor 1 receptor,expressed sequence A123359	colony stimulating factor 1 receptor	
Csf2ra	NM_009970.2	CD116,Csf2ra,Csfgrma,GM-CSF-Ra,GM-CSFRalpha,MGD-MRK-2188,MGI:88532,colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage),colony stimulating factor, granulocyte macrophage receptor alpha	colony stimulating factor 2 receptor, alpha, low-affinity (granulocyte-macrophage)	
Csf2rb	NM_007780.4	A1848964,AIC2B,Bc,Cdw131,Csf2rb,Csf2rb1,Csfgrmb,Il3r,Il3rb,Il3rb1,Il5rb,MGD-MRK-11380,MGD-MRK-11382,MGD-MRK-11383,MGD-MRK-11390,MGD-MRK-2189,MGI:2146084,MGI:96554,beta c, colony stimulating factor 2 receptor, beta 1, low-affinity (granulocyte-macrophage),colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage),colony stimulating factor, granulocyte macrophage receptor, beta chain,common beta chain,expressed sequence A1848964,interleukin 3 receptor beta chain,interleukin 3 receptor, beta chain 1,interleukin 5 receptor beta	colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)	also targets Csf2rb2 (NM_007781, NM_001287389) @ 92%
Csf3r	NM_001252651.1	Cd114,Csf3r,Csfr,G-CSFR,MGD-MRK-2190,MGI:88533,colony stimulating factor 3 receptor (granulocyte),colony stimulating factor, granulocyte receptor	colony stimulating factor 3 receptor (granulocyte)	
Ctla4	NM_009843.4	CD152 antigen,Cd152,Ctla-4,Ctla4,Ly-56,MGD-MRK-2224,MGD-MRK-2234,cytotoxic T lymphocyte-associated protein 4,cytotoxic T-lymphocyte-associated protein 4	cytotoxic T-lymphocyte-associated protein 4	
Ctnna1	NM_009818.1	2010010M04Rik,AA517462,Al988031,Catna1,Ctnna1,MGD-MRK-1773,MGI:1913796,MGI:2147175,MGI:2147284,RIKEN cDNA 2010010M04 gene,alpha E catenin,alpha[E]-catenin,catenin (cadherin associated protein), alpha 1,catenin alpha 1,expressed sequence AA517462,expressed sequence Al988031	catenin (cadherin associated protein), alpha 1	
Ctnnb1	NM_007614.3	Bfc,Catnb,Ctnnb1,MGD-MRK-1775,MGI:2656732,batface,beta catenin,beta-catenin,catenin (cadherin associated protein), beta 1,catenin beta	catenin (cadherin associated protein), beta 1	
Ctnnd1	NM_001085449.1	AA409437,AU019353,Catns,Ctnnd,Ctnnd1,MGD-MRK-28063,MGD-MRK-32140,MGI:2138768,MGI:2139175,P120,catenin (cadherin associated protein), delta 1,catenin src,catenin, delta,expressed sequence AA409437,expressed sequence AU019353,mKIAA0384,p120-catenin	catenin (cadherin associated protein), delta 1	
Ctsw	NM_009985.4	Ctsw,cathepsin W,Jymphopain	cathepsin W	
Cxcl10	NM_021274.1	C7,CRC-2,Cxcl10,INP10,IP-10,IP10,Ifi10,MGD-MRK-11217,MGI:96424,Scyb10,chemokine (C-X-C motif) ligand 10,IP-10,interferon activated gene 10,mob-1,small inducible cytokine B subfamily (Cys-X-Cys), member 10	chemokine (C-X-C motif) ligand 10	
Cxcl11	NM_019494.1	Cxcl11,H174-TAC,IP3,ITAC,SCYB9B,Scyb11,B-1,beta11,chemokine (C-X-C motif) ligand 11,small inducible cytokine subfamily B (Cys-X-Cys), member 11	chemokine (C-X-C motif) ligand 11	
Cxcl9	NM_008599.4	B8139920,CMK,Cxcl9,MGD-MRK-33048,MGI:105379,MGI:2141267,Mig,Scyb9,chemokine (C-X-C motif) ligand 9,crg-10,expressed sequence B8139920,monokine induced by gamma interferon,small inducible cytokine B subfamily (Cys-X-Cys), member 9	chemokine (C-X-C motif) ligand 9	
Cxcr2	NM_009909.3	interleukin 8 receptor, beta,CD128,Cmkr2,Cxcr2,G-protein coupled receptor 16,Gpcr16,IL-8Rb,IL-8Rb,IL8r,MGD-MRK-11396,MGD-MRK-16347,MGD-MRK-32344,MGI:99567,chemokine (C-X-C motif) receptor 2,chemokine (C-X-C motif) receptor 2,interleukin 8 receptor, beta	chemokine (C-X-C motif) receptor 2	
Cxcr4	NM_009911.3	CD184,Cmkr4,Cxcr4,MGD-MRK-38562,MGI:5311025,Mutant line 220,PB-CR,Sdf1r,b2b22C10,chemokine (C-X-C motif) receptor 4,chemokine (C-X-C) receptor 4,fusin	chemokine (C-X-C motif) receptor 4	
Cxcr6	NM_030712.4	B8217514,BONZO,Cxcr6,MGI:2143371,STRL33,chemokine (C-X-C motif) receptor 6,expressed sequence B8217514	chemokine (C-X-C motif) receptor 6	
Cxxc5	NM_133687.2	4930415K17Rik,CXXC finger 5,Cxxc5,RIKEN cDNA 4930415K17 gene	chemokine (C-X-C motif) receptor 6	
Cybb	NM_007807.2	C88302,Cgd,Cybb,MGD-MRK-1965,MGD-MRK-2263,MGI:2148082,nox2,cytochrome b-245, beta polypeptide,expressed sequence C88302,gp91-phox, gp91phox	cytochrome b-245, beta polypeptide	
Cyflp1	NM_001164662.1	Cyflp1,E030028I09Rik,MGI:1352763,MGI:2442012,P140SRA-1,RIKEN cDNA E030028I09 gene,Shyc-Sra-1,cytoplasmic FMR1 interacting protein 1,[(7)1R],[7R]1,lethal, Chr 7, Russell 1,pl-1,selective hybridizing clone	cytoplasmic FMR1 interacting protein 1	
Cyp4a12a/b	NM_010011.3			
Dcn	NM_007833.4	DC,Dcn,MGD-MRK-8811,SLRR1B,decorin	decorin	
Dicer1	NM_148948.2	1110006F08Rik,D12Ert47e,DNA segment, Chr 12, ERATO Doi 7, expressed,Dicer1,Dicer1, Dcr-1 homolog (Drosophila),MGI:1098649,MGI:1915712,RIKEN cDNA 1110006F08 gene,dicer 1, ribonuclease type III,mKIAA0928	dicer 1, ribonuclease type III	
Dkc1	NM_001030307.2	BC068171,Dkc1,MGI:3040698,cDNA sequence BC068171,dyskeratosis congenita 1, dyskerin	dyskeratosis congenita 1, dyskerin	
Dll3	NM_007866.2	Dll3,MGD-MRK-13690,MGI:97819,delta like canonical Notch ligand 3,p.pudgry	delta like canonical Notch ligand 3	
Dna2	NM_177372.3	DNA replication helicase/nuclease 2,DNA2 DNA replication helicase 2-like (yeast),Dna2,Dna2l,E130315B21Rik,RIKEN cDNA E130315B21 gene,mKIAA0083	DNA replication helicase/nuclease 2	
Dnmt1	NM_010066.3	Cxxc9,DNA methyltransferase (cytosine-5) 1,Dnmt1,Dnmt1o,MGD-MRK-12204,MGD-MRK-8877,MGI:3586536,Mtase,MommeD2,modifier of murine metastable epialleles, D2	DNA methyltransferase (cytosine-5) 1	
Dock1	NM_001033420.2	9130006G06Rik,A1854900,Bench to Bassinet Program (B2B/CVDC), mutation 3190Cecilia Lo,D630004B07Rik,Dock1,Dock180,MGI:1918821,MGI:2142074,MGI:2442765,MGI:5618854,Mutant line 3190,RIKEN cDNA 9130006G06 gene,RIKEN cDNA D630004B07 gene,b2b3190Clo,dedicator of cytokinesis 1,expressed sequence A1854900	dedicator of cytokinesis 1	
Dock2	NM_033374.3	A1662014,AW122239,CED-5,Dock2,Hch,MBC,MGI:2144253,MGI:2144499,dedicator of cyto-kinesis 2,expressed sequence A1662014,expressed sequence AW122239	dedicator of cyto-kinesis 2	
Dtl	NM_029766.2	2810047L02Rik,5730564G15Rik,Dtl,MGI:1917907,RIKEN cDNA 2810047L02 gene,RIKEN cDNA 5730564G15 gene,denticleless E3 ubiquitin protein ligase	denticleless E3 ubiquitin protein ligase	
Dusp6	NM_026268.3	130001903Rik,Dusp6,MKP-3,MKP3,PYST1,RIKEN cDNA 130001903 gene,dual specificity phosphatase 6	dual specificity phosphatase 6	
E2f1	NM_007891.4	E2f transcription factor 1,E2F-1,E2f1,MGD-MRK-18775,MGI:5485025	E2F transcription factor 1	
E2f2	NM_177333.7	E2f transcription factor 2,E2f2	E2F transcription factor 2	
Edn1	NM_010104.2	ET-1,Edn1,MGD-MRK-9298,endothelin 1	endothelin 1	
Egf	NM_010113.3	A1790464,Egf,MGD-MRK-9315,MGI:2139798,epidermal growth factor,expressed sequence A1790464	epidermal growth factor	
Egfr	NM_207655.2	903002415Rik,A1852599,Egfr,ErbB,Erbb1,MGD-MRK-15422,MGD-MRK-15424,MGD-MRK-9322,MGD-MRK-9570,MGI:1890525,MGI:2144221,RIKEN cDNA 903002415 gene,Wa5,avian erythroblastic leukemia viral (v-erb-b) oncogene homolog,avian erythroblastosis oncogene B,epidermal growth factor receptor,expressed sequence A1852599,wa-2,wa2,waved 2,waved 5	epidermal growth factor receptor	
Egln3	NM_028133.2	2610021G09Rik,A1505553,A1648162,Egln3,Hif-p4h-3,MGI:1919408,MGI:2144852,MGI:2144873,Phd3,RIKEN cDNA 2610021G09 gene,SM-20,egl-9 family hypoxia-inducible factor 3,expressed sequence A1505553,expressed sequence A1648162	egl-9 family hypoxia-inducible factor 3	
Ehhadh	NM_023737.3	1300002P22Rik,Ehhadh,HD,L-PBE,L-bifunctional enzyme,MFP,MFP1,MGI:1921397,RIKEN cDNA 1300002P22 gene,enoyl-Coenzyme A hydratase/3-hydroxyacyl Coenzyme A dehydrogenase	enoyl-Coenzyme A hydratase/3-hydroxyacyl Coenzyme A dehydrogenase	
Eif2ak3	NM_010121.3	A1427929,Eif2ak3,MGI:2141404,PERK,eukaryotic translation initiation factor 2,alpha kinase 3,expressed sequence A1427929	eukaryotic translation initiation factor 2, alpha kinase 3	

Glul	NM_008131.3	G5,Glns,Glul,MGD-MRK-10117,glutamate-ammonia ligase (glutamine synthetase),glutamine synthetase 670032,AA591640,AI047208,Gm9479,Gmps,MGI:3034331,MGI:3034880,MGI:3779888,expressed sequence AA591640,expressed sequence AI047208,guanidine monophosphate synthetase,predicted gene 9479,predicted gene, 670032	glutamate-ammonia ligase (glutamine synthetase)
Gmps	NM_001033300.2	AI158965,AWS37698,Galpaih3,Gnai-3,Gnai3,MGD-MRK-10182,MGD-MRK- 10185,MGI:2139639,MGI:2139991,expressed sequence AI158965,expressed sequence AWS37698,guanidine nucleotide binding protein (G protein), alpha inhibiting 3	guanidine nucleotide binding protein (G protein), alpha inhibiting 3
Gnai3	NM_010306.2	DC-Hil,Dchi,Gpmb,MGI:1336203,MGI:1933809,Osteoactivin,dendritic cell associated heparan sulfate proteoglycans dependent integrin ligand,glycoprotein (transmembrane) nmb,ipd,iris pigment dispersion	glycoprotein (transmembrane) nmb
Gpmb	NM_053110.4	130000706Rik,2310022803Rik,ALT,Gpt,Gpt-1,Gpt1,MGD-MRK-10236,MGD-MRK- 10237,MGI:1915263,MGI:1923532,RIKEN cDNA 130000706 gene,RIKEN cDNA 2310022803 gene,glutamic pyruvic transaminase 1, soluble,glutamic pyruvic transaminase, soluble	glutamic pyruvic transaminase, soluble
Gpt	NM_182805.2	AI195024,AL033363,CGPx,GPx-1,GSHPx-1,Gpx,Gpx1,MGD-MRK-10238,MGD-MRK- 29040,MGI:2142986,MGI:2143185,cellular GPx,expressed sequence AI195024,expressed sequence AL033363,glutathione peroxidase,glutathione peroxidase 1	glutathione peroxidase 1
Gpx1	NM_008160.5	GRAP-2,GRB2-related adaptor protein 2,GRB2L,GRID,Gads,Grap2,Grb2-related adaptor downstream of Sch,GrbX,Grf40,GripL,Mona,P38,monocytic adaptor	GRB2-related adaptor protein 2
Grap2	NM_001289442.1	Grb7,MGD-MRK-19586,growth factor receptor bound protein 7	growth factor receptor bound protein 7
Grb7	NM_010346.2	Cktsf1b1,Drn,Grem,Grem1,MGI:1344362,cysteine knot superfamily 1, BMP antagonist 1,down-regulated in v- mos-transformed cells,gremilin,gremilin 1, DAN family BMP antagonist,Id,limb deformity	gremilin 1, DAN family BMP antagonist
Grem1	NM_011824.4	0610015A08Rik,BOM,Grh12,MGI:1915242,MGI:5056362,RIKEN cDNA 0610015A08 gene,Tcfcp2l3,cleft face,cftf3,grainyhead like transcription factor 2,grainyheadlike,transcription factor CP2-like 3	grainyhead like transcription factor 2
Grh12	NM_026496.4	7330414F15Rik,8430431H08Rik,C86142,GSK-3,GSK- 3beta,GSK3,Gsk3b,MGI:1914056,MGI:1925394,MGI:2146721,RIKEN cDNA 7330414F15 gene,RIKEN cDNA 8430431H08 gene,expressed sequence C86142,glucocorticoid synthase kinase 3 beta	glucocorticoid synthase kinase 3 beta
Gsk3b	NM_019827.3	AI325518,DBErt238e,DNA segment, Chr 8, ERATO Doi 238, expressed,Gr-1,Gr1,Gsr,MGD-MRK-10240,MGD-MRK- 10241,MGI:1098700,MGI:1196262,MGI:2142510,MGI:2175898,expressed sequence AI325518,glutathione reductase	glutathione reductase
Gsr	NM_010344.4	1110004G14Rik,Gstb-4,Gstb4,Gstm4,MGD-MRK-10316,MGD-MRK-10320,MGI:1915805,RIKEN cDNA 1110004G14 gene,glutathione S-transferase Yb4 subunit,glutathione S-transferase, mu 4	glutathione S-transferase, mu 4
Gstm4	NM_001160411.1	B99,G two S phase expressed protein 1,Gtse-1,Gtse1	G two S phase expressed protein 1
Gtse1	NM_013882.1	AW494114,BLT esterase,Ctla-3,Ctla3,Gzma,H factor,Hanukah factor,HF,MGD-MRK-10699,MGD-MRK-2223,MGD- MRK-2233,MGD-MRK-38311,MGI:2145434,SE1,TSP-1,TSP1,cytotoxic T lymphocyte-associated protein 3,expressed sequence AW494114,granzyme A,serine esterase 1	granzyme A
Gzma	NM_010370.2	AI553453,CCP-1/C11,CCP1,Ctla-1,Ctla1,GZB,Gzmb,MGD-MRK-2219,MGD-MRK-2229,MGD-MRK- 38312,MGI:2145670,cytotoxic T lymphocyte-associated protein 1,expressed sequence AI553453,granzyme B	granzyme B
Gzmb	NM_013542.2	Gzmk,granzyme K	granzyme K
Gzmk	NM_008196.1	A alpha,Aalpa,H-2Aa,H2-Aa,I region-associated antigen 1,I-Aalpa,Ia-1a1,MGD-MRK-10377,MGD-MRK- 10490,MGD-MRK-11044,MGD-MRK-11049,histocompatibility 2, class II antigen A alpha,histocompatibility 2, class II antigen A, alpha	histocompatibility 2, class II antigen A, alpha
H2-Aa	NM_010378.2	A beta,AI845868,Abeta,H-2Ab,H2-Ab,Ab1,I-A-cb>I-Abeta,I-region-associated antigen 2,Iab,Ja-2,Ja2,MGD-MRK- 10378,MGD-MRK-10491,MGD-MRK-11045,MGD-MRK-11050,MGD-MRK- 23932,MGI:1890696,MGI:2146934,Rmcs1,expressed sequence AI845868,histocompatibility 2, class II antigen A, beta,histocompatibility 2, class II antigen A, beta 1,response to metastatic cancers 1	histocompatibility 2, class II antigen A, beta 1 histocompatibility 2, D region locus 1
H2-Ab1	NM_207105.3	H-2D,H2-D1,MGD-MRK-10379,MGD-MRK-10492,histocompatibility 2, D region locus 1	histocompatibility 2, D region locus 1
H2-D1	NM_010380.3	H-2Ma,H2-DMa,H2-M alpha,H2-Ma,MGD-MRK-10405,MGD-MRK-10517,histocompatibility 2, class II, locus DMa,histocompatibility 2, class II, locus Ma	histocompatibility 2, class II, locus DMa
H2-DMa	NM_010386.3	AI385589,H-2Mb1,H2-DMb1,H2-M beta1,H2-Mb1,MGD-MRK-10406,MGD-MRK-10518,MGI:2146833,expressed sequence AI385589,histocompatibility 2, class II, locus Mb1	histocompatibility 2, class II, locus Mb1
H2-DMb1	NM_010387.3	H-2Mb2,H2-DMb2,H2-M beta2,H2-Mb2,MGD-MRK-10407,MGD-MRK-10519,histocompatibility 2, class II, locus Mb2	histocompatibility 2, class II, locus Mb2
H2-DMb2	NM_010388.4	H-2Eb,H2-Eb1,I region-associated antigen 4,Ia-4,Ia4,MGD-MRK-10384,MGD-MRK-10497,MGD-MRK-11047,MGD- MRK-11052,histocompatibility 2, class II antigen E beta	histocompatibility 2, class II antigen E beta
H2-Eb1	NM_010382.2	H-2K,H2-K1,MGD-MRK-10388,MGD-MRK-10500,histocompatibility 2, K1, K region	histocompatibility 2, K1, K region
H2-K1	NM_001001892.2	H-2M3,H2-M3,Hmt,MGD-MRK-10400,MGD-MRK-10511,MGD-MRK-10801,R4B2,histocompatibility 2, M region locus 3	histocompatibility 2, M region locus 3
H2-M3	NM_013819.2	A-beta-2,A-beta2,H-2I,H-2Ob,H2-Ab,H2-Ab2,H2-Iab2,H2-Ob,MGD-MRK-10378,MGD-MRK-10409,MGD-MRK- 10491,MGD-MRK-10521,MGD-MRK-23933,MGI:3573871,Ob,histocompatibility 2, O region beta locus,histocompatibility 2, class II antigen A, beta,histocompatibility 2, class II antigen A beta 2,vic1,virus infectivity controller 1	histocompatibility 2, O region beta locus histocompatibility 2, P region alpha locus
H2-Ob	NM_010389.3	15006,H-2Q1,H2-Q1,MGD-MRK-10412,MGD-MRK-10524,MGD-MRK-13708,MGD-MRK-13718,MGD-MRK- 13736,MGI:3779428,Q1,Q1b,Q1a,Q1k,histocompatibility 2, Q region locus 1,predicted gene, 15006	histocompatibility 2, Q region locus 1
H2-Q1	NM_010390.3	H-2Q10,H2-Q10,MGD-MRK-10413,MGD-MRK-10525,MGD-MRK-13707,MGD-MRK-13719,Q region gene 10,Q10,Qa lymphocyte antigen 10,Qa10,histocompatibility 2, Q region locus 10	histocompatibility 2, Q region locus 10
H2-Q10	NM_010391.4	BE136769,ENSMUSG00000079507,Gm11132,H-2Q2,H2-Q2,MGD-MRK-10414,MGD-MRK- 10527,MGI:3035350,MGI:3779387,expressed sequence BE136769,histocompatibility 2, Q region locus 2,predicted gene 11132,predicted gene, ENSMUSG00000079507	histocompatibility 2, Q region locus 2
H2-Q2	NM_010392.2	37b,37c,H-2T23,H2-T23,MGD-MRK-10439,MGD-MRK-10553,Qa-1,Qa1,Qed- 1,T18c,T18c(37),T23b,T23d,histocompatibility 2, T region locus 23	histocompatibility 2, T region locus 23
H2-T23	NM_010398.3	H2afx	
H2afx	NM_010436.2	Havcr2,T cell immunoglobulin and mucin domain containing 3,TIM-3,Tim3,Timd3,hepatitis A virus cellular receptor 2	hepatitis A virus cellular receptor 2
Havcr2	NM_134250.2	AI849071,B cell myeloid kinase,Bmk,Hck-1,MGD-MRK-10666,MGD-MRK-10667,MGD-MRK- 1590,MGI:2139076,expressed sequence AI849071,hemopoietic cell kinase,hemopoietic cell kinase 1	hemopoietic cell kinase
Hck	NM_001172117.1	Hd1,Hdac1,MGD-MRK-37123,MGI:3586542,MommeD5,RPD3,histone deacetylase 1,modifier of murine metastable epialleles, D5	histone deacetylase 1
Hdac1	NM_008228.2	AW108189,Hdc,Hdc-a,Hdc-c,Hdc-e,Hdc-s,L-histidine decarboxylase,MGD-MRK-10682,MGD-MRK-10683,MGD- MRK-10684,MGD-MRK-10685,MGD-MRK- 10686,MGI:2139302,MGI:96063,MGI:96064,MGI:96065,MGI:96066,expressed sequence AW108189,histidine decarboxylase,histidine decarboxylase concentration (kidney),histidine decarboxylase estrogen response,histidine decarboxylase testosterone response,histidine decarboxylase, structural (kidney)	histidine decarboxylase
Hdc	NM_008230.4	C230052L06Rik,HGF/SF,Hgf,MGD-MRK-10704,MGI:2443459,NK1,NK2,RIKEN cDNA C230052L06 gene,SF/HGF hepatocyte growth factor,scatter factor	hepatocyte growth factor
Hgf	NM_010427.5	AA959795,HIF-1alpha,HIF1alpha,Hif1a,MGD-MRK-35379,MGI:2144750,MOP1,bHLHe78,expressed sequence AA959795,hypoxia inducible factor 1, alpha subunit	hypoxia inducible factor 1, alpha subunit
Hif1a	NM_010431.2	6430706D2Rik,A730008H23Rik,C330011F01Rik,Gm975,Hjurp,Holliday junction recognition protein,MGI:1925855,MGI:3612871,RIKEN cDNA 6430706D22 gene,RIKEN cDNA A730008H23 gene,RIKEN cDNA C330011F01 gene, model 975, (NCBI)	Holliday junction recognition protein hexokinase 2
Hjurp	NM_198652.2	AI642394,HKII,HK2,MGI:2141455,expressed sequence AI642394,hexokinase 2	hexokinase 2
Hk2	NM_013820.3	AL023995,HMG-(Y),HMGY,Hmg1,Hmg1a,Hmg1b,Hmg1,Hmgiv,MGD-MRK- 10796,MGI:2144347,expressed sequence AL023995,high mobility group AT-hook 1,high mobility group protein I DBWsu38e,DNA segment, Chr 8, Wayne State University 38, expressed,HO-1,H01,Hmox,Hmox1,Hsp32,MGD-MRK- 10800,MGD-MRK-34114,MGD-MRK-38247,MGI:106420,MGI:109203,heme oxygenase 1,hemoxygenase	heme oxygenase 1
Hmox1	NM_010442.2	H-ras,Ha-ras,Harvey rat sarcoma virus oncogene,Harvey rat sarcoma virus oncogene 1,Harvey-ras,Hras,Hras- 1,Hras1,MGD-MRK-10930,MGD-MRK-10931,c-H-ras,c-rasHa	Harvey rat sarcoma virus oncogene
Hras	NM_001130443.1	11beta-HSD-1,11beta-hydroxysteroid dehydrogenase type 1,Hsd11b1,MGD-MRK-24447,hydroxysteroid 11-beta dehydrogenase 1	hydroxysteroid 11-beta dehydrogenase 1
Hsd11b1	NM_008288.2	Hsp25,Hspb1,MGD-MRK-10954,heat shock protein 1,heat shock protein, 25 kDa	heat shock protein 1
Hspb1	NM_013560.2	5430439H10Rik,AU041296,Arf-bp1,C430014N20Rik,C80292,Gm1718,HECT, UBA and WWE domain containing 1,Huwe1,Ib772,LOC382250,MGI:1918622,MGI:2147973,MGI:2148063,MGI:2443454,MGI:2686564,MULE,RIKEN cDNA 5430439H10 gene,RIKEN cDNA C430014N20 gene,Ureb1,expressed sequence AU041296,expressed sequence C80292, gene model 1718, (NCBI),mKIAA0312,upstream regulatory element binding protein 1e CD54,Icam-1,Icam1,Ly-47,MALA-2,MGC-6195,MGD-MRK-11146,MGD-MRK-11148,MGD-MRK-11989,intercellular adhesion molecule 1,lymphocyte antigen 47	HECT, UBA and WWE domain containing 1 intercellular adhesion molecule 1
Huwe1	NM_021523.4	Icos,inducible T cell co-stimulator	inducible T cell co-stimulator
Icam1	NM_010493.3	AI314845,AI788952,E030024I03Rik,IPdc-1,Idh-1,Idh1,MGD-MRK-11152,MGD-MRK-11180,MGD-MRK- 11183,MGI:2138196,MGI:2138322,RIKEN cDNA E030024I03 gene,expressed sequence AI314845,expressed sequence AI788952,isocitrate dehydrogenase 1,isocitrate dehydrogenase 1 (NADP+), soluble	isocitrate dehydrogenase 1 (NADP+), soluble
Idh1	NM_010497.2	IDPm,Idh2,Idh2,MGD-MRK-11181,MGD-MRK-11184,isocitrate dehydrogenase 2,isocitrate dehydrogenase 2 (NADP+), mitochondrial	isocitrate dehydrogenase 2 (NADP+), mitochondrial
Idh2	NM_173011.2		

Kat2b	NM_001190846.1	A930006P13Rik, A4461839, AWS36563, K(llysine) acetyltransferase 2B, Kat2b, MGI:2146869, MGI:2147070, MGI:2445128, Pcaf, RIKEN cDNA A930006P13 gene, expressed sequence A4461839, expressed sequence AWS36563, p300/CBP-associated factor	K(llysine) acetyltransferase 2B
Kat6a	NM_001364449.1	9930021N24Rik, K(llysine) acetyltransferase 6A, Kat6a, MGI:1926208, MOZ, MYST histone acetyltransferase (monocytic leukemia) 3, Myst3, RIKEN cDNA 9930021N24 gene, 2fp220, zinc finger protein 220	K(llysine) acetyltransferase 6A
Kat6b	NM_001205241.1	A1507552, B130044K16Rik, K(llysine) acetyltransferase 6B, Kat6b, MGI:2145668, MGI:2443197, MYST histone acetyltransferase monocytic leukemia 4, Morf, Myst4, RIKEN cDNA B130044K16 gene, expressed sequence A1507552, monocytic leukemia, qkf, querkopf	K(llysine) acetyltransferase 6B
Kdm1a	NM_133872.1	1810043007Rik, AA408884, Aof2, D4Erd478e, DNA segment, Chr 4, ERATO Doi 478, expressed, Kdm1, Kdm1a, LSD1, MGI:1917041, MGI:2140140, RIKEN cDNA 1810043007 gene, amine oxidase (flavin containing) domain 2, expressed sequence AA408884, lysine (K)-specific demethylase 1, lysine (K)-specific demethylase 1A, mKIAA0601	lysine (K)-specific demethylase 1A
Kdm3b	NM_001081256.1	583046212Rik, JHDM2B, Jmjd1b, KDM3B lysine (K)-specific demethylase 3B, Kdm3b, RIKEN cDNA 583046212 gene, jumonji domain containing 1B, mKIAA1082	KDM3B lysine (K)-specific demethylase 3B
Kdm5a	NM_145997.2	AA409370, C76986, EST C76986, Jarid1a, Kdm5a, MGC:11659, MGI:1353553, MGI:2141364, RBP2, Rbp2, expressed sequence AA409370, jumonji, AT rich interactive domain 1A (Rbp2 like), lysine (K)-specific demethylase 5A, retinoblastoma binding protein 2	lysine (K)-specific demethylase 5A
Kdm6a	NM_009483.1	Kdm6a, Utx, lysine (K)-specific demethylase 6A, ubiquitously transcribed tetratricopeptide repeat gene, X chromosome	lysine (K)-specific demethylase 6A
Kdr	NM_010612.2	Fik-1, Fik1, Kdr, MGD-MRK-11605, MGD-MRK-11606, MGD-MRK-9826, MGD-MRK-9828, MGI:5004964, MGI:95555, VEGF receptor-2, VEGFR-2, VEGFR2, fetal liver kinase 1, kinase insert domain protein receptor, orv, orvieto, vascular endothelial growth factor receptor-2	kinase insert domain protein receptor
Keap1	NM_00110307.1	INrf2, Keap1, kelch-like ECH-associated protein 1, mKIAA0132, ring canal protein	kelch-like ECH-associated protein 1
Kif20a	NM_009004.3	AA415432, Kif20a, MGI:2147172, Rab6, kinesin-like, Rab6kif1, Rabkinesin-6, expressed sequence AA415432, kinesin family member 20A	kinesin family member 20A
Kif23	NM_024245.3	311000D19Rik, C87313, CHO1, Kif23, Kns15, MGI:2143440, MKLP-1, MKLP1, RIKEN cDNA 311000D19 gene, expressed sequence C87313, kinesin family member 23, kinesin-like 5 (mitotic kinesin-like protein 1)	kinesin family member 23
Kif2c	NM_134471.3	4930402F02Rik, EST X83316, Kif2c, MGC:11883, MGD-MRK-28119, MGI:104825, RIKEN cDNA 4930402F02 gene, X83316, kinesin family member 2C	kinesin family member 2C
Kir3dl1/2	NM_177749.4		Kir3dl1 (NM_177749; NM_001310690), Kir3dl2 (NM_177748)
Kit	NM_001122733.1	Bs, CD117, Dominant white spotting, Fdc, Gfsfco1, Gfsfco5, Gfsfco3, KIT proto-oncogene receptor tyrosine kinase, Kit, MGD-MRK-11588, MGD-MRK-14609, MGD-MRK-15420, MGD-MRK-1672, MGD-MRK-9743, MGI:3530304, MGI:3530312, MGI:3530319, SCO1, SCOS, SOW3, Ssm, Steel Factor Receptor, Tr-Kit, W, belly-spot, c-KIT, dominant spotting, gsf spotted coat 1, gsf spotted coat 5, phenotype like Sl or W 3, spotted sterile male	KIT proto-oncogene receptor tyrosine kinase
KIF5	NM_009769.4	4930520J07Rik, Bteb2, CKLF, KLF5, Kruppel-like factor 5, MGI:1922343, RIKEN cDNA 4930520J07 gene, basic transcription element binding protein 2	Kruppel-like factor 5
Klk4	NM_019928.1	ESMP1, KLK-L1, Klk4, Prss17, kallikrein related-peptidase 4 (protease, enamel matrix, prostate), protease, serine 17 (enamel matrix, prostate)	kallikrein related-peptidase 4 (protease, enamel matrix, prostate)
Klrb1	NM_001099918.1	100043861, 4930431A04Rik, Gm4696, Klrb1, Ly-55, Ly55, MGD-MRK-11998, MGD-MRK-12041, MGI:1914651, MGI:3782876, Nkrp1g, RIKEN cDNA 4930431A04 gene, killer cell lectin-like receptor subfamily B member 1, lymphocyte antigen 55, predicted gene 4696, predicted gene, 100043861	killer cell lectin-like receptor subfamily B member 1
Klrd1	NM_010654.2	CD94, Klrd1, killer cell lectin-like receptor, subfamily D, member 1	killer cell lectin-like receptor, subfamily D, member 1
Klrg1	NM_016970.1	2F1-Ag, Klrg1, killer cell lectin-like receptor subfamily G, member 1	killer cell lectin-like receptor subfamily G, member 1
Klrl1	NM_001083322.1	D6H12S2489E, DNA Segment, Chr 6, human D12S2489E, Klrl1, NKG2-D, Nkg2d, killer cell lectin-like receptor subfamily K, member 1	killer cell lectin-like receptor subfamily K, member 1
Kmt2a	NM_001081049.1	ALL-1, All1, Cxcr7, HTRX1, Kmt2a, MGD-MRK-12254, MGD-MRK-1281, Mll, Mll1, acute lymphocytic leukemia, lysine (K)-specific methyltransferase 2A, myeloid/lymphoid or mixed-lineage leukemia, myeloid/lymphoid or mixed-lineage leukemia 1, trithorax Drosophila	lysine (K)-specific methyltransferase 2A
Kmt2d	NM_001033276.1	BC032281, BC058659, C430014K11Rik, Kmt2d, MGI:2443148, MGI:2448505, Mll2, Mll4, RIKEN cDNA C430014K11 gene, cDNA sequence BC032281, cDNA sequence BC058659, lysine (K)-specific methyltransferase 2D, myeloid/lymphoid or mixed-lineage leukemia 2	lysine (K)-specific methyltransferase 2D
Kpna2	NM_010655.3	2410044B12Rik, importin alpha, Kpna2, MGD-MRK-24446, MGI:1913724, RAG (recombination activating gene) cohort 1, RIKEN cDNA 2410044B12 gene, Rch1, importin alpha 1, karyopherin (importin) alpha 2, m-importin, m-importin-alpha-P1, pendulin	karyopherin (importin) alpha 2
Kras	NM_021284.6	A1929937, K-ras, Ki-ras, Kirsten rat sarcoma oncogene 2, expressed, Kirsten rat sarcoma viral oncogene homolog, Kras, Kras-2, Kras2, MGD-MRK-11597, MGD-MRK-11601, MGI:2145158, expressed sequence A1929937 A1324768, K16, Krt1-16, Krt16, MGD-MRK-11645, MGI:2144125, expressed sequence A1324768, keratin 16, keratin complex 1, acidic, gene 16	Kirsten rat sarcoma viral oncogene homolog
Krt16	NM_008470.1	K17, Krt1-17, krt17, MGD-MRK-11646, keratin 17, keratin complex 1, acidic, gene 17	keratin 16
Krt17	NM_008663.2	CD223, LAG-3, Lag3, Ly66, MGD-MRK-35044, lymphocyte antigen 66, lymphocyte-activation gene 3	keratin 17
Lag3	NM_008479.1	5133400D11Rik, BB115266, D7Bwg0421e, DNA segment, Chr 7, Brigham & Women's Genetics 0421 expressed, Lair-1, Lair1, MGD-MRK-33164, MGI:1918474, MGI:2142289, RIKEN cDNA 5133400D11 gene, expressed sequence BB115266, leukocyte-associated Ig-like receptor 1, mLair-1	lymphocyte-activation gene 3
Lair1	NM_001113474.1	BB115266, leukocyte-associated Ig-like receptor 1, mLair-1	leukocyte-associated Ig-like receptor 1
Lama2	NM_008481.2	Lama2, MGD-MRK-16710, MGD-MRK-9246, dy, dystrophin muscularis, laminin, alpha 2, mer, merosin, nfm417	laminin, alpha 2
Lama4	NM_010681.3	Lama4, MGD-MRK-38366, laminin [a]4, laminin, alpha 4	laminin, alpha 4
Lamb1	NM_008482.2	C77966, C80098, C81607, D130003008Rik, Lamb-1, Lamb1, Lamb-1, MGD-MRK-11734, MGD-MRK-11737, MGI:2145087, MGI:2145103, MGI:2145114, RIKEN cDNA D130003008 gene, expressed sequence C77966, expressed sequence C80098, expressed sequence C81607, laminin B1, laminin B1 polypeptide, laminin B1 subunit 1	laminin B1
Lamb3	NM_008484.2	Lamb3, MGD-MRK-16713, laminin, beta 3, nicein, 125kDa	laminin, beta 3
Lamc1	NM_010683.2	Lamb2, Lamc1, MGD-MRK-16712, laminin B2, laminin, gamma 1	laminin, gamma 1
Lamc2	NM_008485.3	AA589349, Lamc2, MGD-MRK-16711, MGI:2138115, expressed sequence AA589349, laminin, gamma 2, nicein, 100kDa	laminin, gamma 2
Lamtor1	NM_025605.3	2400001E08Rik, Lamtor1, RIKEN cDNA 2400001E08 gene, late endosomal/lysosomal adaptor, MAPK and MTOR activator 1, p18	laminin, gamma 2
Lamtor2	NM_001362368.1	2010111E04Rik, AL022628, Lamtor2, MGI:1913801, MGI:2144920, Mappbjp, P14, RIKEN cDNA 2010111E04 gene, Rab25, Robl3, expressed sequence AL022628, late endosomal/lysosomal adaptor, MAPK and MTOR activator 2, mitogen-activated protein binding protein interacting protein, roadblock domain containing 3	late endosomal/lysosomal adaptor, MAPK and MTOR activator 1
Lamtor4	NM_001081108.2	091000109Rik, AV006840, Lamtor4, MGI:2141100, RIKEN cDNA 091000109 gene, expressed sequence AV006840, late endosomal/lysosomal adaptor, MAPK and MTOR activator 4	late endosomal/lysosomal adaptor, MAPK and MTOR activator 2
Lamtor5	NM_026774.2	1110003H18Rik, Hbip, Lamtor5, RIKEN cDNA 1110003H18 gene, hepatitis B virus x interacting protein, late endosomal/lysosomal adaptor, MAPK and MTOR activator 5	late endosomal/lysosomal adaptor, MAPK and MTOR activator 4
Lat	NM_010689.2	Lat, linker for activation of T cells	late endosomal/lysosomal adaptor, MAPK and MTOR activator 5
Lats1	NM_010690.1	AW208599, Lats1, MGI:2143822, expressed sequence AW208599, large tumor suppressor	linker for activation of T cells
Lck	NM_010693.2	Hck-3, Lck, MGD-MRK-10669, MGD-MRK-11758, hemopoietic cell kinase 3, lymphocyte protein tyrosine kinase p56-ckc	large tumor suppressor
Lcn2	NM_008491.1	24p3, AW212229, Lcn2, MGD-MRK-11759, MGI:2139327, NGAL, NRL, expressed sequence AW212229, lipocalin 2, neuron-related lipocalin	lymphocyte protein tyrosine kinase
Ldha	NM_010699.1	LDH-A, Ldh-1, Ldh1, Ldha, MGD-MRK-11762, MGD-MRK-11768, MGI:1890511, J7R2, lactate dehydrogenase A, lactate dehydrogenase-A, lethal, Chr 7, Oak Ridge 2	lipocalin 2
Lig1	NM_001083188.1	AL033288, Lig1, Lig1, MGD-MRK-18597, MGI:2142100, expressed sequence AL033288, ligase I, DNA, ATP-dependent, mlig1	lactate dehydrogenase A
Lin9	NM_175186.4	2700022I23Rik, AA537062, AA545216, Lin9, MGI:2138112, MGI:2138113, RIKEN cDNA 2700022I23 gene, expressed sequence AA537062, expressed sequence AA545216, lin-9 homolog (C. elegans)	ligase I, DNA, ATP-dependent
Lmbn1	NM_010721.2	Lmbn1, MGD-MRK-11819, lamin B1	lin-9 homolog (C. elegans)
Lox	NM_010728.3	A1893619, Lox, MGD-MRK-11866, MGI:2147282, TSC-160, expressed sequence A1893619, lysyl oxidase, ras reversion gene (rrg)	lamin B1
Lrrc32	NM_001113379.1	A1426318, D115833Eh, D7H15833E, DNA segment, Chr 7, human D115833E, EG434215, Garp, Lrrc32, MGD-MRK-3048, MGD-MRK-7790, MGD-MRK-9983, MGI:2141939, MGI:3647721, expressed sequence A1426318, glycoprotein A repetitions predominant, leucine rich repeat containing 32, predicted gene, EG434215	lysyl oxidase
Lta	NM_010735.2	LT, LT-[a], LT-alpha, LT[a], Lta, Ltx, MGD-MRK-11928, MGD-MRK-15153, MGD-MRK-28089, MGI:3575121, TNF beta, TNF-beta, TnfB, Tnfsf1b, heart, lung and blood 382, Nlb382, lymphotoxin, lymphotoxin A, lymphotoxin alpha, tumor necrosis factor beta	leucine rich repeat containing 32
Ltb	NM_008518.2	A1662801, Ltbeta, Ltb, MGD-MRK-16192, MGD-MRK-28088, MGI:2146913, Tnfc, Tnfsf3, expressed sequence A1662801, lymphotoxin B, lymphotoxin beta, p33, tumor necrosis factor C	lymphotoxin A
Ltpb1	NM_019919.2	9430031G15Rik, LTPB-1, Ltpb1, MGD-MRK-38195, MGI:1924572, MGI:5316769, Mutant line 1000, RIKEN cDNA 9430031G15 gene, b2b1000C1o, latent transforming growth factor beta binding protein 1	lymphotoxin B

MyI9	NM_172118.1	A1327049,MGD-MRK-36061,MGI:107493,MLC20,MyI9,MyIc2c,RLC-C,expressed sequence A1327049,myosin light chain, regulatory C,myosin, light polypeptide 9, regulatory	myosin, light polypeptide 9, regulatory
Nanog	NM_028016.2	2410002E02RIK,ENK,Nanog,Nanog homeobox,RIKEN cDNA 2410002E02 gene,ecat4	Nanog homeobox
Nbl1	NM_008675.2	D4H15L733E,DAN,DNA segment, Chr 4, human D151733E,Dana,MGD-MRK-26025,MGD-MRK-33709,NBL1, DAN family BMP antagonist,NOS3,Nbl1,differential screening selected gene aberrative in neuroblastoma	NBL1, DAN family BMP antagonist
Ncapp	NM_019438.1	5730507H05RIK,Hcapg,MFT.M05.13,MGI:1917886,Ncapp,RIKEN cDNA 5730507H05 gene,non-SMC condensin I complex, subunit G	non-SMC condensin I complex, subunit G
Ncf1	NM_001286037.1	MGD-MRK-12789,MGD-MRK-12792,NADPH oxidase subunit (47kDa),NOXO2,Ncf-1,Ncf1,neutrophil cytosolic factor 1,neutrophil cytosolic factor 1,p47-phox-,p47phox	neutrophil cytosolic factor 1
Ncf2	NM_010877.4	MGD-MRK-12790,MGD-MRK-12793,NADPH oxidase subunit (67kDa),NOXA2,Ncf-2,Ncf2,neutrophil cytosolic factor 2,p67phox	neutrophil cytosolic factor 2
Nck1	NM_010878.2	6330586M15RIK,D230010013RIK,MGD-MRK-39600,MGI:1097154,MGI:2441714,MGI:2441955,Nck,Nck1,RIKEN cDNA 6330586M15 gene,RIKEN cDNA D230010013 gene,non-catalytic region of tyrosine kinase,non-catalytic region of tyrosine kinase adaptor protein 1	non-catalytic region of tyrosine kinase adaptor protein 1
Ncoa2	XM_017319230.1	D1ErtD433e,DNA segment, Chr 1, ERATO Doi 433, expressed,Grip1,KAT13C,MGD-MRK-35900,MGI:107429,MGI:1196270,Ncoa2,SRC-2,TIF-2,TIF2,GRIP-1,bHLHe75,glucocorticoid receptor interacting protein 1,glucocorticoid receptor-interacting protein 1,nuclear receptor coactivator 2	nuclear receptor coactivator 2
Ncor1	NM_011308.3	5730405M06RIK,A230020K14RIK,MGD-MRK-24052,MGI:103184,MGI:2441784,MGI:2444535,N-CoR,Ncor1,RIKEN cDNA 5730405M06 gene,RIKEN cDNA A230020K14 gene,Rxrip13,mkIAA1047,nuclear receptor co-repressor 1,retinoid X receptor interacting protein 13	nuclear receptor co-repressor 1
Ncr1	NM_010746.3	Ly94,MAR1 (mouse activating receptor 1),NKp46,Ncr1,lymphocyte antigen 94,natural cytotoxicity triggering receptor 1	natural cytotoxicity triggering receptor 1
Ndufa2	NM_010885.5	AV000592,B8,C1-B8,MGI:2147331,NADH:ubiquinone oxidoreductase subunit A2,Ndufa2,expressed sequence AV000592	NADH:ubiquinone oxidoreductase subunit A2
Neil3	NM_146208.2	A1449477,BC034753,C85903,MGC:27861,MGC:36916,MGI:2142547,MGI:2142872,Neil3,cDNA sequence BC034753,expressed sequence A1449477,expressed sequence C85903,nei like 3 (E. coli)	nei like 3 (E. coli)
Nek2	NM_010892.3	AA617254,C77054,MGD-MRK-38404,MGI:2138121,MGI:2138656,NIMA (never in mitosis gene a)-related expressed kinase 2,Nek2,expressed sequence AA617254,expressed sequence C77054	NIMA (never in mitosis gene a)-related expressed kinase 2
Nf1	NM_010897.2	AW494271,Dsk9,MGD-MRK-12821,MGD-MRK-12822,MGI:2144546,MGI:2450693,Martin Hrade de Angelis dark skin 9,Mhdads9,NF-1,NF1,dark skin 9,expressed sequence AW494271,neurofibromatosis 1,neurofibromin,neurofibromin 1	neurofibromin 1
Nfam1	NM_028728.2	4921501M20RIK,Nfam1,Nfat activating molecule with ITAM motif 1,RIKEN cDNA 4921501M20 gene	Nfat activating molecule with ITAM motif 1
Nfat2	NM_001037177.1	A1607462,MGD-MRK-12824,MGD-MRK-19300,MGI:2139019,NFAT1,NFAT1-D,NFATp,Nfat2,Nfatp,expressed sequence A1607462,nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2,nuclear factor of activated T-cell phosphoprotein	nuclear factor of activated T cells, cytoplasmic, calcineurin dependent 2
Nfe2l2	NM_010902.3	A1194320,MGD-MRK-37463,MGI:2138857,Nfe2l2,Nrf2,expressed sequence A1194320,nuclear factor, erythroid derived 2, like 2	nuclear factor, erythroid derived 2, like 2
Nfkb1	NM_008689.2	MGD-MRK-12829,NF kappaB1,NF-kappaB,p50,Nfkb1,nuclear factor kappaB p50,nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105,p50,p50 subunit of NF kappaB,p50/p105	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105
Nfkb2	NM_019408.2	NF kappaB2,Nfkb2,nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100,p52	nuclear factor of kappa light polypeptide gene enhancer in B cells 2, p49/p100
Nkg7	NM_024253.4	2500004F03RIK,MGI:1919560,Nkg7,RIKEN cDNA 2500004F03 gene,natural killer cell group 7 sequence	natural killer cell group 7 sequence
Nkx3-1	NM_010921.3	Bax,MGD-MRK-12894,NK3 homeobox 1,NKX3-1,NKX3A,NKx-3-1,NKx3-1,bagpipe	NK3 homeobox 1
Nme1	NM_008704.2	AL024257,MGD-MRK-12901,MGI:2144352,NDPK-A,NM23-M1,NME/NM23 nucleoside diphosphate kinase 1,Nme1,expressed sequence AL024257,non-metastatic cells 1, protein (NM23A) expressed in MGD-MRK-12910,MGD-MRK-12913,NOS-ii,Nos-2,Nos2,Nos2a,NOS,inositol oxide synthase 2, inducible,nitric oxide synthase-2 (brain)	NME/NM23 nucleoside diphosphate kinase 1
Nos2	NM_010927.3	2310065A03RIK,MGD-MRK-12911,MGD-MRK-12914,MGI:1919183,Nos-3,Nos3,RIKEN cDNA 2310065A03 gene,eNOS,eNOS,nitric oxide synthase 3 (inducible),nitric oxide synthase 3, endothelial cell	nitric oxide synthase 3, endothelial cell
Nos3	NM_008713.4	AW229011,MGD-MRK-16230,MGI:2147057,MGI:4418502,N3,Notch3,expressed sequence	notch 3
Notch3	NM_008716.2	AW229011,hpbk,humpback,notch 3	notch 3
Nras	NM_010937.2	AV095280,MGD-MRK-12932,MGI:2139934,N-ras,Nras,expressed sequence AV095280,neuroblastoma ras oncogene	neuroblastoma ras oncogene
Nsd1	NM_008739.3	A1528500,KMT3B,MGI:2145265,Nsd1,expressed sequence A1528500,nuclear receptor-binding SET-domain protein 1	nuclear receptor-binding SET-domain protein 1
Nt5e	NM_011851.3	2210401F01RIK,5' nucleotidase,5' nucleotidase, ecto,A1447961,CD73,MGD-MRK-16568,MGI:1921492,MGI:2143050,Nt5e,Nt5e,RIKEN cDNA 2210401F01 gene,ecto-5'-nucleotidase,expressed sequence A1447961	5' nucleotidase, ecto
Nudt2	NM_025539.2	2310051L06RIK,AA939917,APAH1,MGI:2140176,Nudt2,RIKEN cDNA 2310051L06 gene,expressed sequence AA939917,nudix (nucleoside diphosphate linked moiety X)-type motif 2	nudix (nucleoside diphosphate linked moiety X)-type motif 2
Nuf2	NM_001355159.1	2410003C07RIK,AU0044112,C85691,cdca1,MGI:2138503,MGI:2138707,NUF2, NDC80 kinetochore complex component,Nuf2,Nuf2R,RIKEN cDNA 2410003C07 gene,cell division cycle associated 1,expressed sequence AU044112,expressed sequence C85691	NUF2, NDC80 kinetochore complex component
Oas1a	NM_145211.2	2'-5' oligoadenylate synthetase 1A,L3,Oas1a	2'-5' oligoadenylate synthetase 1A
Oas2	NM_145227.3	2'-5' oligoadenylate synthetase 2,2'-5' oligoadenylate synthetase-like 11,Oas2,Oas11	2'-5' oligoadenylate synthetase 2
Oas3	NM_145226.2	2'-5' oligoadenylate synthetase 3,2'-5' oligoadenylate synthetase-like 10,Oas3,Oas10	2'-5' oligoadenylate synthetase 3
Osm	NM_001013365.2	MGD-MRK-28040,Oncostatin M	oncostatin M
Osmr	NM_011019.3	OSMRB,Osmr,oncostatin M receptor	oncostatin M receptor
P4ha2	NM_011031.2	AA407196,C76437,MGI:2143965,MGI:2144619,P4ha2,P4hl,expressed sequence AA407196,expressed sequence C76437,procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha II polypeptide,prolyl 4-hydroxylase-like	procollagen-proline, 2-oxoglutarate 4-dioxygenase (proline 4-hydroxylase), alpha II polypeptide
P4hb	NM_011032.2	Erp59,MGD-MRK-13114,MGD-MRK-15082,P4hb,PDI,PDia1,Thbp,prolyl 4-hydroxylase, beta polypeptide,protein disulfide isomerase,thyroid hormone binding protein	prolyl 4-hydroxylase, beta polypeptide
Pa2g1	NM_011119.3	AA672939,Ebp.1,MGI:2143505,Pa2g1,Pfap,expressed sequence AA672939,proliferation-associated 2G4,proliferation-associated protein 1	proliferation-associated 2G4
Pak2	NM_177326.3	5330420P17RIK,A130002K10RIK,A1836325,D16ErtD269e,DNA segment, Chr 16, ERATO Doi 269, expressed,MGI:1098647,MGI:1924351,MGI:2146488,MGI:2442429,PAK-2,Pal2,RIKEN cDNA 5330420P17 gene,RIKEN cDNA A130002K10 gene,expressed sequence A1836325,p21 (RAC1) activated kinase 2	p21 (RAC1) activated kinase 2
Pard3	NM_001013581.2	AA960621,A1256638,ASIP,08ErtD580e,DNA segment, Chr 8, ERATO Doi 580, expressed,MGI:1261826,MGI:2142456,MGI:2142486,PAR-3,Par3,Pard3,Pard3a,expressed sequence AA960621,expressed sequence A1256638,par-3 family cell polarity regulator	par-3 family cell polarity regulator
Parp1	NM_007415.3	5830444G22RIK,ADP-ribosyltransferase (NAD+, poly (ADP-ribose) polymerase)	poly (ADP-ribose) polymerase family, member 1
Parp2	NM_009632.2	1.A1893648,Adprp,Adprt1,C80510,MGD-MRK-1132,MGI:2138374,MGI:2138692,MGI:87933,PARP,Parp1,RIKEN cDNA 5830444G22 gene,expressed sequence A1893648,expressed sequence C80510,parp-1,poly (ADP-ribose) polymerase,poly (ADP-ribose) polymerase family, member 1,PARP-1	poly (ADP-ribose) polymerase family, member 1
Parp3	NM_145619.2	ADP-ribosyltransferase (NAD+, poly (ADP-ribose) polymerase)-like 2,ADP-ribosyltransferase (NAD+, poly (ADP-ribose) polymerase) 2,Adprt2,Adprt2,Aspart2,C78626,EST C78626,MGI:1353643,PARP-2,Parp2,poly (ADP-ribose) polymerase family, member 2	poly (ADP-ribose) polymerase family, member 2
Parva	NM_020606.5	A930002C11RIK,ADP-ribosyltransferase (NAD+, poly (ADP-ribose) polymerase)-like 3,AW990611,Adprt3,Adprt3,MGI:2143354,MGI:2444599,PARP-3,Parp3,RIKEN cDNA A930002C11 gene,expressed sequence AW990611,poly (ADP-ribose) polymerase family, member 3	poly (ADP-ribose) polymerase family, member 3
Pbrm1	NM_001081251.1	2010012A22RIK,543040F08RIK,A1225929,AU042898,CH-ILKBP,MGI:1914044,MGI:1923778,MGI:2141883,MGI:2142158,Parva,RIKEN cDNA 2010012A22 gene,RIKEN cDNA 543040F08 gene,actopaxin,expressed sequence A1225929,expressed sequence AU042898,parvin, alpha	parvin, alpha
Pclaf	NM_026515.2	2310032M22RIK,2610016F04RIK,A1507524,BAF180,MGI:1914173,MGI:2145667,Pb1,Pbrm1,RIKEN cDNA 2610016F04 gene,expressed sequence A1507524,polybromo 1	polybromo 1
Pcna	NM_011045.2	2810417H13RIK,AA409629,MGI:2147825,PCNA clamp associated factor,Pclaf,RIKEN cDNA 2810417H13 gene,expressed sequence AA409629,mkIAA0101,p15(PAF)	PCNA clamp associated factor
Pdcd1	NM_008798.2	MGD-MRK-13206,MGD-MRK-29032,PD-1,Pdcd1,programmed cell death,programmed cell death 1	programmed cell death 1
Pdcd1lg2	NM_021396.2	B7-DC,btdc,F730015O22RIK,MGI:2442044,PD-L2,Pdcd1lg2,RIKEN cDNA F730015O22 gene,programmed cell death 1 ligand 2	programmed cell death 1 ligand 2
Pdgfrb	NM_011057.4	MGD-MRK-13212,MGD-MRK-14423,PDGF-B,Pdgfrb,Sis,platelet derived growth factor, B polypeptide,simian sarcoma oncogene	platelet derived growth factor, B polypeptide
Pdgrfra	NM_011058.2	A1115593,CD140a,MGD-MRK-13215,MGD-MRK-13216,MGI:2140805,Pdgfr-2,Pdgrfra,expressed sequence A1115593,platelet derived growth factor receptor, alpha polypeptide	platelet derived growth factor receptor, alpha polypeptide
Pdgrfb	NM_008809.1	A1528809,CD140b,MGD-MRK-13214,MGD-MRK-13217,MGI:2147240,Pdgfr,Pdgrfb,expressed sequence A1528809,platelet derived growth factor receptor,platelet derived growth factor receptor, beta polypeptide	platelet derived growth factor receptor, beta polypeptide
Pdk1	NM_172665.3	D530020C15RIK,Pdk1,RIKEN cDNA D530020C15 gene,pyruvate dehydrogenase kinase, isoenzyme 1	pyruvate dehydrogenase kinase, isoenzyme 1

		1110001A05RIK,AI987914,C87059,Enh,Enh2,Enh3,MGI:1914158,MGI:1927491,MGI:2139847,MGI:2140101,PDZ and LIM domain 5,Pdlim5,RIKEN cDNA 1110001A05 gene,enigma homolog 2 (R. norvegicus),enigma homolog 3 (R. norvegicus),expressed sequence AI987914,expressed sequence C87059	PDZ and LIM domain 5
Pdlim5	NM_001190857.1		
Pdpk1	NM_001080773.2	3-phosphoinositide dependent protein kinase 1,Pdk1,Pdk1,Pkb kinase 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3,E330010H22RIK,MGI:2442800,Pfkfb3,RIKEN cDNA E330010H22 gene,uPKF-2	3-phosphoinositide dependent protein kinase 1
Pfkfb3	NM_001177552.1		
Pfkb	NM_019703.2	1200015H23RIK,9330125N24RIK,MGI:1921374,MGI:1924805,PFK-C,PKK,RIKEN cDNA 1200015H23 gene,RIKEN cDNA 9330125N24 gene,phosphofructokinase, platelet	phosphofructokinase, platelet
Pgf	NM_008827.2	AI854365,MGD-MRK-321135,MGI:2144912,PIGF,PLGF,Pgf,expressed sequence AI854365,placenta growth factor,placental growth factor	placental growth factor
Pgk1	NM_008282.2	MGD-MRK-13258,MGD-MRK-13266,Pgk-1,Pgk1,phosphoglycerate kinase 1	phosphoglycerate kinase 1
Pgb	NM_008831.4	MGD-MRK-13290,Pgb,prohibitin	prohibitin
Pik3ca	NM_008839.1	6330412C24RIK,MGI:1917992,Pik3ca,RIKEN cDNA 6330412C24 gene,caPI3K,p110alpha,phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
Pik3cb	NM_029094.3	1110001J02RIK,AI447572,MGI:2143049,Pik3cb,RIKEN cDNA 1110001J02 gene,expressed sequence AI447572,p110beta,phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
Pik3cd	NM_001029837.2	2410099E07RIK,2610208K16RIK,AW545373,MGI:1917688,MGI:1925744,MGI:2140589,Pik3cd,RIKEN cDNA 2410099E07 gene,RIKEN cDNA 2610208K16 gene,expressed sequence AW545373,p110delta,phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit delta
Pik3e	NM_001024955.2	AA414921,MGD-MRK-13305,MGI:2145159,PI3K,Pik3r1,expressed sequence	phosphoinositide-3-kinase regulatory subunit 1
Pik3f	NM_008841.3	AA414921,p50alpha,p55alpha,phosphoinositide-3-kinase regulatory subunit 1	phosphoinositide-3-kinase regulatory subunit 1
Pik3g	NM_001355585.1	Pik3r2,p85beta,phosphoinositide-3-kinase regulatory subunit 2	phosphoinositide-3-kinase regulatory subunit 2
Pik3h	NM_001355585.1	AA414954,MGD-MRK-38322,MGI:2140152,Pik3r3,expressed sequence AA414954,p55,p55plk,phosphoinositide-3-kinase regulatory subunit 3	phosphoinositide-3-kinase regulatory subunit 3
Pik3i	NM_001081309.1	2210010015RIK,C730038E05RIK,C85833,D9Erd418e,DNA segment, Chr 9, ERATO Doi 418, expressed,MGI:1196267,MGI:2143428,MGI:2442102,Pik3r4,RIKEN cDNA 2210010015 gene,RIKEN cDNA C730038E05 gene,Vps15,expressed sequence C85833,p150,phosphoinositide-3-kinase regulatory subunit 4	phosphoinositide-3-kinase regulatory subunit 4
Pik3j	NM_177320.2	AV230647,F730038I15RIK,Foap2,MGI:2144465,Pik3r5,RIKEN cDNA F730038I15 gene,expressed sequence AV230647,p101,phosphoinositide-3-kinase regulatory subunit 5	phosphoinositide-3-kinase regulatory subunit 5
Pirb	NM_011095.2	Gp91,Liirb3,Pirb,glycoprotein 91,leukocyte immunoglobulin-like receptor, subfamily B (with TM and ITIM domains), member 3,paired Ig-like receptor B,paired-Ig-like receptor B	paired Ig-like receptor B
Pkm	NM_011099.2	AA414905,AL024370,AL024424,MGD-MRK-13319,MGD-MRK-13320,MGD-MRK-13322,MGI:2143184,MGI:2143184,MGI:2144733,Pk-2,Pk-3,Pk3,Pkm,Pkm2,expressed sequence AA414905,expressed sequence AL024370,expressed sequence AL024424,pyruvate kinase,pyruvate kinase 3,pyruvate kinase, muscle	pyruvate kinase, muscle
Pla2g4a	NM_008869.2	Pla2g4a,Pla2g4a,Type IV PLA2,cPLA2,cPLA2alpha,cytosolic PLA2,cytosolic phospholipase A2,phospholipase A2, group IV,phospholipase A2, group IVA (cytosolic, calcium-dependent)	phospholipase A2, group IVA (cytosolic, calcium-dependent)
Plau	NM_008873.3	MGD-MRK-13347,Plau,plasminogen activator, urokinase,u-PA,uPA,urokinase-type plasminogen activator	plasminogen activator, urokinase
Plcb3	NM_008874.3	MGD-MRK-28070,Plcb3,phospholipase C, beta 3	phospholipase C, beta 3
Plcg2	NM_172285.1	MGC:38590,MGD-MRK-13354,MGD-MRK-13356,PLCgamma2,Plcg-2,Plcg2,phospholipase C, gamma 2	phospholipase C, gamma 2
Plek2	NM_013738.3	Plek2,pleckstrin 2	pleckstrin 2
Plo1	NM_011121.3	MGD-MRK-13361,Pik,Pik1,STPK13,polo like kinase 1,polo-like kinase (Drosophila)	polo like kinase 1
Pmaip1	NM_021451.2	Noxa,Pmaip1,phorbol-12-myristate-13-acetate-induced protein 1	phorbol-12-myristate-13-acetate-induced protein 1
Pnoc	NM_001205075.1	MGD-MRK-32349,N/OFQ,N23K,Npnc1,OFQ/N,Pnoc,neuropeptide nociceptin 1,prepronociceptin,proorphanin	prepronociceptin
Pole	NM_011132.2	Pole,pol-epsilon,polymerase (DNA directed), epsilon	polymerase (DNA directed), epsilon
Pou5f1	NM_013633.2	MGD-MRK-12976,MGD-MRK-12977,MGD-MRK-13063,MGD-MRK-13065,MGD-MRK-13070,MGD-MRK-13077,MGD-MRK-13080,MGD-MRK-18720,MGD-MRK-19416,Oct-3,Oct-3/4,Oct-4,Oct3/4,Oct4,Otf-3,Otf-4,Otf3,Otf3-rs,Otf3g,Otf4,POU domain, class 5, transcription factor 1,Pou5f1,octamer binding transcription factor 3,octamer binding transcription factor 3 related sequence 7,octamer binding transcription factor 4	POU domain, class 5, transcription factor 1
Ppan	NM_145610.2	A230087P06RIK,MGI:2441789,Ppan,RIKEN cDNA A230087P06 gene,SSF1,peter pan homolog	peter pan homolog
Prdx1	NM_011034.4	MGD-MRK-16300,MSP23,OSF-3,PAG,Prdx1,Prx1,Prx1,TDX2,Tdx2,Trx dependent peroxide reductase 2,macrophage 23kDa stress protein,macrophage stress protein 22kDa,osteoblast specific factor 3,peroxiredoxin 1,proliferation-associated gene A.prx1,thioredoxin dependent peroxide reductase 2	peroxiredoxin 1
Prdx2	NM_011563.5	AL022839,MGD-MRK-39485,MGI:2138384,PRP,Prdx2,Prx II-1,PrxII,TDX1,TPX,TR,TSX,Tdxp1,Trx dependent peroxide reductase 1,expressed sequence AL022839,peroxiredoxin 2,protector protein,thiol specific antioxidant protein,thioredoxin dependent peroxide reductase 1,thioredoxin peroxidase,thioredoxin peroxidase 1,thioredoxin reductase	peroxiredoxin 2
Prdx6	NM_007453.4	1-Cys Prx,1-cysPrx,9430088D19RIK,AA690119,Aop2,Brp-12,CC26,CP-3,Gpx,Ltw-4,Ltw4,Ltw-4,MGD-MRK-11921,MGD-MRK-11926,MGD-MRK-11944,MGD-MRK-1637,MGI:2444784,MGI:3035058,MGI:96849,NSGP,Prdx6,RIKEN cDNA 9430088D19 gene,acidic calcium-independent phospholipase A2,aiPLA2,brain protein 12,expressed sequence AA690119,liver 20-30 thousand M.Wt protein 4,liver 20-30 thousand M.Wt. protein 4,peroxiredoxin 6	peroxiredoxin 6
Prf1	NM_011073.2	MGD-MRK-13251,MGD-MRK-13605,Pfn,Pf,Prf-1,Prf1,perforin,perforin 1,perforin 1 (pore forming protein),pore forming protein	perforin 1 (pore forming protein)
Prim1	NM_008921.2	A1324982,DNA primase, p49 subunit,MGD-MRK-13608,MGI:2143579,Prim1,expressed sequence A1324982	DNA primase, p49 subunit
Prkaca	NM_008854.3	C alpha,Cs,MGD-MRK-13323,PKA,Prkaca,protein kinase, cAMP dependent, catalytic, alpha	protein kinase, cAMP dependent, catalytic, alpha
Prkcb	NM_011101.3	A1875142,MGD-MRK-13327,MGI:2144325,Prkca,Prkca,expressed sequence A1875142,protein kinase C, alpha A130082F03RIK,MGD-MRK-13328,MGI:2442598,PKC-Beta,Prkcb,Prkcb1,Prkcb2,RIKEN cDNA A130082F03 gene,protein kinase C, beta,protein kinase C, beta 1	protein kinase C, beta
Prkcd	NM_001316672.1	Medc1,Med1,Psmb10,proteasome (prosome, macropain) subunit, beta type 10	proteasome (prosome, macropain) subunit, beta type 10
Psmb10	NM_013640.3	MCI14,MGD-MRK-36211,Psmb7,proteasome (prosome, macropain) subunit, beta type 7	proteasome (prosome, macropain) subunit, beta type 7
Psmb7	NM_011187.1	Lmp-2,Lmp2,MGD-MRK-11821,MGD-MRK-11823,MGI:96797,Psmb9,large multifunctional protease 2,low molecular weight polypeptide 2,proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)	proteasome (prosome, macropain) subunit, beta type 9 (large multifunctional peptidase 2)
Psmb9	NM_013585.2	A23106A15RIK,MGD-MRK-12200,MGD-MRK-33042,MGI:1924464,MGI:5004954,MGI:96966,Patched 1,Ptc1,Ptc1,RIKEN cDNA A23106A15 gene,mes,mesenchymal dysplasia,patched 1,wig,wiggable	patched 1
Ptch1	NM_008957.2	Ptc2,patched 2,ptc2	patched 2
Ptch2	NM_008958.2	2310035007RIK,A130070I02RIK,AI463227,B430203M17RIK,MGD-MRK-39582,MGI:1917411,MGI:2147557,MGI:2443558,MMAc1,Pten,RIKEN cDNA 2310035007 gene,RIKEN cDNA A130070I02 gene,RIKEN cDNA B430203M17 gene,TEP1,expressed sequence AI463227,phosphatase and tensin homolog	phosphatase and tensin homolog
Pten	NM_008960.2	42kDa,EP1,MGD-MRK-13660,Ptger1,Ptger1,prostaglandin E receptor 1 (subtype EP1),prostaglandin E receptor EP1 subtype	prostaglandin E receptor 1 (subtype EP1)
Ptger1	NM_013641.2	EP2,EP2 receptor,MGD-MRK-13661,Ptger2,Ptger2,prostaglandin E receptor 2 (subtype EP2),prostaglandin E receptor EP2 subtype	prostaglandin E receptor 2 (subtype EP2)
Ptger2	NM_008964.3	EP3,MGD-MRK-13257,MGD-MRK-13662,Ptger3,Ptger3,Ptger3,prostaglandin E receptor 3 (subtype EP3),prostaglandin E receptor EP3 subtype	prostaglandin E receptor 3 (subtype EP3)
Ptger3	NM_011196.2	EP4,MGD-MRK-25639,Ptger4,Ptger4,prostaglandin E receptor 4 (subtype EP4),prostaglandin E receptor EP4 subtype	prostaglandin E receptor 4 (subtype EP4)
Ptger4	NM_008965.1	COX2,Cox-2,MGD-MRK-13665,PGHS-2,PHS-2,Pghs2,Ptgs2,Tis10,cyclooxygenase 2,cyclooxygenase-2,prostaglandin G/H synthase,prostaglandin-endoperoxide synthase 2	prostaglandin-endoperoxide synthase 2
Ptgs2	NM_011198.3	HcpH,MGD-MRK-10672,MGD-MRK-12181,Ptpn6,SHP-1,Spin,hcp,hemopoietic cell phosphatase,me,motheaten,protein tyrosine phosphatase, non-receptor type 6	protein tyrosine phosphatase, non-receptor type 6
Ptpn6	NM_013545.2	B220,CD45,CD45 antigen,CD45,ly-5,lyt-4,MGD-MRK-11992,MGD-MRK-12076,MGD-MRK-13679,MGD-MRK-1864,MGI:3584395,Ptprc,T-lymphocyte antigen 4,T200,lymphocyte antigen 5,protein tyrosine phosphatase, receptor type, C	protein tyrosine phosphatase, receptor type, C
Ptprc	NM_011210.3	Rac family small GTPase 3,Rac1B,Rac3	Rac family small GTPase 3
Rac3	NM_133223.4	AV304093,MGD-MRK-13824,MGI:2139265,RADS1 recombinase,RADS1A homolog (S. cerevisiae),Rad51,Rad51a,Reca,expressed sequence AV304093,recombination and repair of radiation damage, RAD51 homolog	RADS1 recombinase
Rad51	NM_011234.4	2510006L10RIK,MGI:2148250,RAB22,RADS1 associated protein 1,RIKEN cDNA 2510006L10 gene,Rad51ap1	RADS1 associated protein 1
Rad51ap1	NM_009013.4	E130016E03RIK,MGI:2444973,RAD5A homolog B (S. cerevisiae),RIKEN cDNA E130016E03 gene,Rad54b	RAD5A homolog B (S. cerevisiae)
Rad54b	NM_001256145.1	RAD5A,RAD5A like (S. cerevisiae),Rad54l	RAD5A like (S. cerevisiae)
Rad54l	NM_001122958.1	6430402F14RIK,AA990557,BB129353,Craf1,Craf1 transforming gene,MGD-MRK-13751,MGD-MRK-13752,MGI:1277195,MGI:1924126,MGI:2141729,MGI:2146790,RIKEN cDNA 6430402F14 gene,Raf-1,Raf1,c-Raf,expressed sequence AA990557,expressed sequence BB129353,murine sarcoma 3611 oncogene 1,sarcoma 3611 oncogene,v-Raf,v-raf-leukemia viral oncogene 1	v-raf-leukemia viral oncogene 1
Raf1	NM_029780.3	GTase activating protein,Gap,MGC:7759,MGD-MRK-13770,MGD-MRK-9965,RAS p21 protein activator	RAS p21 protein activator 1
Rasa1	NM_145452.3	1,Rasa1,p120-rasGAP	RAS p21 protein activator 1
Rb1	NM_009029.2	MGD-MRK-13784,MGD-MRK-13785,RB transcriptional corepressor 1,Rb,Rb-1,Rb1,pRb,retinoblastoma 1	RB transcriptional corepressor 1
Rb1cc1	NM_009826.4	2900055E04RIK,5930404L04RIK,Cc1,Fip200,LaXp180,MGI:1920276,MGI:1924359,RB1-inducible coiled-coil 1,RIKEN cDNA 2900055E04 gene,RIKEN cDNA 5930404L04 gene,Rb1cc1,coiled coil forming protein 1,mKIAA0203	RB1-inducible coiled-coil 1

Rbbp5	NM_172517.2	493341124Rik,RIKEN cDNA 493341124 gene,Rbbp5,retinoblastoma binding protein 5, histone lysine methyltransferase complex subunit	retinoblastoma binding protein 5, histone lysine methyltransferase complex subunit
Rbl1	NM_001139516.1	AWS47426,MGD-MRK-24184,MGI:2139378,RB transcriptional corepressor like 1,Rbl1,expressed sequence 1500002P15Rik,AA517855,MGI:1913478,MGI:2145915,RIKEN cDNA 1500002P15 gene,ROC1,Rb1,expressed sequence AA517855,ring-box 1	RB transcriptional corepressor like 1 ring-box 1
Rbx1	NM_019712.3	MGD-MRK-13832,Rel,c-Rel,reticuloendotheliosis oncogene	reticuloendotheliosis oncogene
Rel	NM_009044.2	MGD-MRK-24171,MGI:4838325,Rel,avian reticuloendotheliosis viral (v-rel) oncogene related B,shp,spontaneous hepatitis	avian reticuloendotheliosis viral (v-rel) oncogene related B
Relb	NM_009046.2	MGD-MRK-13846,RETS1,RET9,Ret,c-Rel,ret proto-oncogene	ret proto-oncogene
Ret	NM_009050.2	261008M13Rik,40KDa,AI326953,MGD-MRK-13826,MGI:1913827,MGI:2140845,MGI:97892,RIKEN cDNA 261008M13 gene,Recc2,Rfc2,expressed sequence AI326953,replication factor C (activator 1) 2,replication factor C 2	replication factor C (activator 1) 2
Rfc2	NM_020022.2	2810416I22Rik,38kDa,AU022547,MGD-MRK-13827,MGI:2141068,MGI:97893,RIKEN cDNA 2810416I22 gene,Recc3,Rfc3,expressed sequence AU022547,replication factor C (activator 1) 3,replication factor C 3	replication factor C (activator 1) 3
Rfc3	NM_027009.2	A1,AI894123,AU040575,MGI:2146520,RFC37,Rfc4,expressed sequence AI894123,expressed sequence AU040575,replication factor C (activator 1) 4	replication factor C (activator 1) 4
Rfc4	NM_145480.1	4921505C17Rik,6030405M08Rik,AW492497,D530039E11Rik,MGI:1924409,MGI:1925833,MGI:2146218,RIKEN cDNA 4921505C17 gene,RIKEN cDNA 6030405M08 gene,RIKEN cDNA D530039E11 gene,RPTOR independent companion of MTOR, complex 2,Rictor,expressed sequence AW492497	RPTOR independent companion of MTOR, complex 2
Rictor	NM_030168.3	4931417E21Rik,4933426K21Rik,AA097693,AI325948,AU015629,EST AI325948,MGI:1889811,MGI:1913991,MGI:2141551,MGI:3034764,NAAGS,RIKEN cDNA 4931417E21 gene,RIKEN cDNA 4933426K21 gene,Rimkb,expressed sequence AA097693,expressed sequence AU015629,ribosomal modification protein rimk-like family member B	ribosomal modification protein rimk-like family member B
Rimkb	NM_027664.1	Arkadia,Rnf111,ring finger 111	ring finger 111
Rnf111	NM_033604.2	1110055K06Rik,MGD-MRK-36507,MGI:1916035,RIKEN cDNA 1110055K06 gene,Rho-associated coiled-coil containing protein kinase 1,Rock-I,Rock1	Rho-associated coiled-coil containing protein kinase 1
Rock1	NM_009071.2	B230113H15Rik,MGD-MRK-36506,MGI:1925098,RIKEN cDNA B230113H15 gene,ROKalpha,Rho-associated coiled-coil containing protein kinase 2,Rho-kinase,Rock-II,Rock2,Rock2m	Rho-associated coiled-coil containing protein kinase 2
Rock2	NM_009072.2	14kDa,C330026P08Rik,RIKEN cDNA C330026P08 gene,Rpa3,replication protein A3	replication protein A3
Rpa3	NM_026632.4	4932417H02Rik,RIKEN cDNA 4932417H02 gene,Rap,Rptor,regulatory associated protein of MTOR, complex 1	regulatory associated protein of MTOR, complex 1
Rptor	NM_028898.3	AU041672,Gr2,MGI:2140480,Ras-related GTP binding C,Rragc,TI8929,YGR163W,expressed sequence AU041672,small GTPase, homolog (S. cerevisiae)	Ras-related GTP binding C
Rragc	NM_017475.2	AA407299,MGD-MRK-14210,MGI:2145142,R2,Rrm2,expressed sequence AA407299,ribonucleotide reductase M2	ribonucleotide reductase M2
Rrm2	NM_009104.1	AI462102,AML1,Cbfa2,MGD-MRK-16643,MGD-MRK-33691,MGI:2146437,Pebp2a2,Runx1,core binding factor alpha 2,expressed sequence AI462102,run domain, alpha subunit 2,run related transcription factor 1	run related transcription factor 1
Runx1	NM_00111023.2	2510009G06Rik,MGI:1913734,Pontin52,RIKEN cDNA 2510009G06 gene,RuvB-like protein 1,Ruvb1,Tip49a	RuvB-like protein 1
Ruvb1	NM_019685.2	1700040G09Rik,MGI:1920575,RIKEN cDNA 1700040G09 gene,Salv,Sav1,WW45,salvador family WW domain containing 1	salvador family WW domain containing 1
Sav1	NM_022028.2	AA408134,AA409076,CD138,MGD-MRK-14682,MGD-MRK-14686,MGI:2144723,MGI:2144725,MGI:98464,Sdc1,Synd1,expressed sequence AA408134,expressed sequence AA409076,syn-1,syndecan,syndecan 1	syndecan 1
Sdc1	NM_011519.2	AI528707,CD62L,selectin,LECAM-1,Lnhr,Ly-22,Ly-m22,Lyam-1,Lyam1,MGD-MRK-11841,MGD-MRK-11961,MGD-MRK-12014,MGD-MRK-12052,MGD-MRK-12053,MGD-MRK-14358,MGI:2138287,Sell,expressed sequence AI528707,lymph node homing receptor,lymphocyte adhesion molecule 1,lymphocyte antigen 22,lymphocyte antigen m22,selectin, lymphocyte	selectin, lymphocyte
Sell	NM_001164059.1	1110036M19Rik,AI462524,AI646751,MGD-MRK-39578,MGI:1915965,MGI:2138262,MGI:2138309,Maspin,RIKEN cDNA 1110036M19 gene,Serpinb5,Spi7,expressed sequence AI462524,expressed sequence AI646751,ovalbumin,serine (or cysteine) peptidase inhibitor, clade B, member 5,serine protease inhibitor 7	serine (or cysteine) peptidase inhibitor, clade B, member 5
Serpinb5	NM_009257.3	MGD-MRK-13344,PAI-1,PAI1,Planh1,Serpine1,plasminogen activator inhibitor, type 1,serine (or cysteine) peptidase inhibitor, clade E, member 1	serine (or cysteine) peptidase inhibitor, clade E, member 1
Serpine1	NM_008871.2	4921524K10Rik,BC031601,KMT3A,MGI:2446266,RIKEN cDNA 4921524K10 gene,SET domain containing 2,Setd2,cDNA sequence BC031601	SET domain containing 2
Setd2	NM_001081340.2	2810001M05Rik,AA409119,MGI:1100839,MGI:1923833,MGI:2138089,Prp10,RIKEN cDNA 2810001M05 gene,SAP155,SF3b155,Sf3b1,Targ4,expressed sequence AA409119,splicing factor 3b, subunit 1,transforming growth factor alpha regulated gene 4	splicing factor 3b, subunit 1
Sf3b1	NM_031179.2	14-3-3,14-3-3 sigma,Erp,MGD-MRK-9568,MGI:95409,MME1,Sfn,Ywhas,repeated epilation,stratifin,tyrosine 3-mono-oxygenase,(tryptophan 5-mono-oxygenase activation protein, sigma polypeptide)	stratifin
Sfn	NM_018754.2	Duncan disease homolog,SAP,SH2 domain containing 1A,SH2d1a	SH2 domain containing 1A
Sh2d1a	NM_011364.4	MGI:2147516,MGI:3647497,RIKEN cDNA 2310101D11 gene,SH3 and PX domains 2A,SH3 multiple domains 1,Sh3md1,Sh3pdx2a,Tks5,expressed sequence AA589508,expressed sequence AI256723,expressed sequence AI413738,SH3 domains, predicted gene 5098, predicted gene, EG329070	SH3 and PX domains 2A
Sh3pdx2a	NM_001164717.1	Dsh,Hhg1,HvH3,M100081,MGD-MRK-11020,MGD-MRK-14403,MGD-MRK-19573,MGD-MRK-8906,MGI:3051411,MGI:94931,MGI:96290,Shh,hedgehog gene 1,hemimelic extra toes,hemimelic extra toes like 3,short digits,sonic hedgehog	sonic hedgehog
Shh	NM_009170.3	SGIIEC-like 1,SGIIEC5,Siglece,Siglec1,mSiglec-E,sialic acid binding Ig-like lectin 5,sialic acid binding Ig-like lectin E	sialic acid binding Ig-like lectin E
Siglece	NM_031181.2	SGIIEC5,SiglecF,mSiglec-F,sialic acid binding Ig-like lectin 5,sialic acid binding Ig-like lectin F	sialic acid binding Ig-like lectin F
SiglecF	NM_145581.1	AWS53200,MGD-MRK-24169,MGD-MRK-35618,MGI:2143326,Sin3,Sin3a,expressed sequence AWS53200,mSin3A,transcriptional regulator, SIN3A (yeast)	transcriptional regulator, SIN3A (yeast)
Sin3a	NM_001110350.1	A1835480,Bit,CD172a,MGD-MRK-36527,MGD-MRK-37607,MGI:107947,MGI:2139057,P84,Tpns1,SHPS-1,SIRP,Sirpa,brain immunological-like with tyrosine-based motifs,expressed sequence AI835480,protein tyrosine phosphatase, non-receptor type substrate 1,signal-regulatory protein alpha	signal-regulatory protein alpha
Sirpa	NM_001291020.1	AV117428,spindle and kinetochore associated complex subunit 1	spindle and kinetochore associated complex subunit 1
Ska1	NM_001164355.1	9130011J04Rik,MGD-MRK-33894,MGI:1918865,RIKEN cDNA 9130011J04 gene,SKI-like,Skil,Skir,SnoN,SnoN2,ski/sno related,sno-de3	SKI-like
Skil	NM_011386.2	4930500A04Rik,FBX11,MGI:1922284,RIKEN cDNA 4930500A04 gene,S-phase kinase-associated protein 2 (p45),Skp2	S-phase kinase-associated protein 2 (p45)
Skp2	NM_013787.2	ASCT2,MGD-MRK-32346,Slc1a5,Slc1a7,solute carrier family 1 (neutral amino acid transporter), member 5,solute carrier family 1, member 7	solute carrier family 1 (neutral amino acid transporter), member 5
Slc1a5	NM_009201.2	Glut-1,Glut1,MGD-MRK-10155,MGD-MRK-10159,Slc2a1,glucose transporter 1, erythrocyte,solute carrier family 2 (facilitated glucose transporter), member 1	solute carrier family 2 (facilitated glucose transporter), member 1
Slc2a1	NM_011400.3	DOH16S474E,DNA segment, human S474E,LAT1,Slc7a5,TA1,solute carrier family 7 (cationic amino acid transporter, y+ system), member 5	solute carrier family 7 (cationic amino acid transporter, y+ system), member 5
Slc7a5	NM_011404.3	Drad-1,E030015M03Rik,E130320P19Rik,MGI:1333781,MGI:2442301,MGI:2443562,MGI:5437089,Mutant line 1200 1,RIKEN cDNA E030015M03 gene,RIKEN cDNA E130320P19 gene,Slii3,Slii2,b2b1200 1,Clo,slit guidance ligand 2	slit guidance ligand 2
Slii2	NM_178804.3	MGD-MRK-38342,Sipi,secretory leukocyte peptidase inhibitor	secretory leukocyte peptidase inhibitor
Sipi	NM_011414.3	Madh7,SMAD family member 7,Smad7	SMAD family member 7
Smad7	NM_001042660.1	Bamacan,Cspg6,MGI:1261435,Max dimerization protein member-interacting protein	Max dimerization protein member-interacting protein
Smc3	NM_007790.3	1,Mmp13,Smc3,Smcd,condroitin sulfate proteoglycan 6,structural maintenance of chromosomes 3	structural maintenance of chromosomes 3
Smo	NM_176996.4	E130215I21Rik,MGD-MRK-37112,MGI:1276113,MGI:2442674,RIKEN cDNA E130215I21 gene,Smo,bent body,bnb,smoothened, frizzled class receptor	smoothened, frizzled class receptor
Sms	NM_009214.4	A1427066,MGD-MRK-39489,MGI:2147883,Sms,SpmS2,expressed sequence AI427066,spermine synthase	spermine synthase
Snai1	NM_011427.3	AI194338,MGD-MRK-14460,MGI:2138858,Sna,Sna1,Snai1,Snai1,expressed sequence AI194338,snail family zinc finger 1,snail homolog (Drosophila)	snail family zinc finger 1
Snai2	NM_011415.2	Slug,Slugh,Snai2,Snai2,slug, chicken homolog,snail family zinc finger 2	snail family zinc finger 2
Socs1	NM_009896.2	Cish1,Cish7,JAB1,JAK-binding protein,JAK2-binding protein,MGI:1276585,Socs1,SSI-1,STAT-induced STAT inhibitor 1,Socs1,cytokine inducible SH2-containing protein 1,suppressor of cytokine signaling 1	suppressor of cytokine signaling 1
Socs3	NM_007707.2	CIS3,Cis3,E2a-Pbx1 target gene in fibroblasts 10,EF-10,Socs3,SSI-3,STAT-induced STAT inhibitor 3,Socs3,cytokine inducible SH2-containing protein 3,cytokine-inducible SH2 protein 3,suppressor of cytokine signaling 3	suppressor of cytokine signaling 3
Sod1	NM_011434.1	B430204E11Rik,Cu(2+)-Zn2+ superoxide dismutase,Cu/Zn-SOD,CuZnSOD,Ipo-1,Ipo1,MGD-MRK-11443,MGD-MRK-11444,MGD-MRK-14483,MGD-MRK-14485,MGI:2441859,RIKEN cDNA B430204E11 gene,SODC,Sod-1,Sod1,indophenol oxidase,superoxide dismutase 1, soluble	superoxide dismutase 1, soluble
Sord	NM_146126.4	MGD-MRK-14340,MGD-MRK-14341,MGD-MRK-35108,Sdh-1,Sdh1,Sdh1,Sord,sorbitol dehydrogenase,sorbitol dehydrogenase 1	sorbitol dehydrogenase
Sos1	NM_009231.2	4430401P03Rik,AI449023,MGD-MRK-14489,MGI:1918028,MGI:2146862,RIKEN cDNA 4430401P03 gene,SOS Ras/Rac guanine nucleotide exchange factor 1,Sos1,expressed sequence AI449023	SOS Ras/Rac guanine nucleotide exchange factor 1

Sox2	NM_011443.3	MGD-MRK-14493,MGD-MRK-14503,MGI:1891165,MGI:2181707,SRY (sex determining region Y)-box 2,Sox2,cc,light coat and circling,yellow submarine,ysb	SRY (sex determining region Y)-box 2
Sox7	NM_011446.1	MGD-MRK-14508,SRY (sex determining region Y)-box 7,Sox7	SRY (sex determining region Y)-box 7
Spdef	NM_013891.4	PDEF,Pse,SAM pointed domain containing ets transcription factor,Spdef	SAM pointed domain containing ets transcription factor
Sphk2	NM_001172561.1	C76851,MGI:2142309,Sphk2,expressed sequence C76851,sphingosine kinase 2	sphingosine kinase 2
Spib	NM_019866.1	Spi-B,Spi-B transcription factor (Spi-1/PU.1 related),Spib	Spi-B transcription factor (Spi-1/PU.1 related)
Spint1	NM_016907.3	HAI-1,Spint1,serine protease inhibitor, Kunitz type 1 AL024025,C76321,HAI-2,MGI:2142094,MGI:2142304,Spint2,expressed sequence AL024025,expressed sequence C76321,serine protease inhibitor, Kunitz type 2	serine protease inhibitor, Kunitz type 2
Spint2	NM_011464.2		serine protease inhibitor, Kunitz type 2
Sqle	NM_009270.3	Ai323792,MGD-MRK-38341,MGI:2145979,Sqle,expressed sequence Ai323792,squalene epoxidase	squalene epoxidase
Sqstm1	NM_011018.3	A170,MGD-MRK-36511,OSF-6,OsI,STAP,Sqstm1,oxidative stress induced,p62,sequestosome 1 AW259666,MGD-MRK-14556,MGI:2139334,Rous sarcoma oncogene,Src,expressed sequence AW259666,pp60c-src	sequestosome 1 Rous sarcoma oncogene
Src	NM_001025395.2		Rous sarcoma oncogene
Sreb1	NM_011480.1	ADD-1,MGD-MRK-36180,SREBP-1,SREBP-1a,SREBP-1c,SREBP1,SREBP1c,Sreb1,bHLH1,sterol regulatory element binding transcription factor 1	sterol regulatory element binding transcription factor 1
Srm	NM_009272.4	AA407669,MGD-MRK-19593,MGI:2140122,SpdSt,SpdSy,Srm,expressed sequence AA407669,spermidine synthase	spermidine synthase
Ssrp1	NM_001136081.2	C81323,HMG-box-containing,Hmg1-rs1,Hmgi-rs3,Hmgox,MGD-MRK-10749,MGD-MRK-10799,MGD-MRK-28178,MGD-MRK-36492,MGI:2139516,Ssrp1,T160,expressed sequence C81323,high mobility group protein 1, related sequence 1,high mobility group protein 1, related sequence 3,structure specific recognition protein 1 9230105L23RIK,B230112I07RIK,MGI:1925327,MGI:1925692,RIKEN cDNA 9230105L23 gene,RIKEN cDNA B230112I07 gene,SA-2,SAP2,Stag2,nuclear protein SA2,stromal antigen 2 2010005J02RIK,AA408197,MGD-MRK-23925,MGI:1923977,MGI:2138078,RIKEN cDNA 2010005J02 gene,Stat1,expressed sequence AA408197,signal transducer and activator of transcription 1 1110034C02RIK,AW109958,Aprf,MGD-MRK-23900,MGI:1915983,MGI:2144497,RIKEN cDNA 1110034C02 gene,Stat3,expressed sequence AW109958,signal transducer and activator of transcription 3	structure specific recognition protein 1 stromal antigen 2 signal transducer and activator of transcription 1
Stag2	NM_001077712.1		stromal antigen 2
Stat1	NM_009283.3		signal transducer and activator of transcription 1
Stat3	NM_213659.2		signal transducer and activator of transcription 3
Stat4	NM_011487.4		signal transducer and activator of transcription 4
Sting1	NM_028261.1	MGD-MRK-23924,Stat4,signal transducer and activator of transcription 4 2610307O08RIK,ERIS,MPYS,RIKEN cDNA 2610307O08 gene,Sting,Sting1,Tmem173,stimulator of interferon response cGAMP interactor 1,transmembrane protein 173	stimulator of interferon response cGAMP interactor 1
Stip1	NM_016737.2	Hop,Hsp70/Hsp90 organizing protein,I EF SSP 3521,MGD-MRK-38174,STI1,Stip1,p60,stress-induced phosphoprotein 1	stress-induced phosphoprotein 1
Stk3	NM_019635.2	O610042I06RIK,MGI:1914102,MST,Mst2,RIKEN cDNA O610042I06 gene,Ste20,Stk3,mess1,serine/threonine kinase 3	serine/threonine kinase 3
Stk4	NM_021420.3	Ai447339,AU020804,Kas-2,MGI:1203525,MGI:2138944,MGI:2139225,Mst1,Stk4,Yeast Sps1/Ste20-related kinase 3 (S. cerevisiae),Ysk3,expressed sequence Ai447339,expressed sequence AU020804,serine/threonine kinase 4,sterile 20-like kinase 1	serine/threonine kinase 4
Supt16	NM_033618.3	Cdc68,Fact140,SPT16, facilitates chromatin remodeling subunit,Spt16,Supt16,Supt16h,suppressor of Ty 16 homolog (S. cerevisiae)	SPT16, facilitates chromatin remodeling subunit
Syk	NM_001198977.1	MGD-MRK-16292,Syk,Sykb,spleen tyrosine kinase	spleen tyrosine kinase
Tap1	NM_001161730.1	ATP-binding cassette, sub-family B (MDR/TAP), member 2,Abcb2,Ham-1,Ham1,MGD-MRK-10612,MGD-MRK-10614,MGD-MRK-14712,MGD-MRK-14714,MTP1,PSF-1,RING4,TAP,Tap-1,Tap1,histocompatibility antigen modifier 1,transporter 1, ABC (ATP binding cassette),transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
Tap2	NM_011530.2	Ai462429,ATP-binding cassette, sub-family B (MDR/TAP), member 3,Abcb3,HAM2,Ham-2,Ham2,MGD-MRK-10613,MGD-MRK-10615,MGD-MRK-14713,MGD-MRK-14715,MGI:2146874,MGI:3584394,MTP2,PSF2,Tap-2,Tap2,expressed sequence Ai462429,histocompatibility antigen modifier 2,transporter 2, ABC (ATP binding cassette),transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)	transporter 2, ATP-binding cassette, sub-family B (MDR/TAP)
Tapbp	NM_009318.2	D17Wsu91e,DNA segment, Chr 17, Wayne State University 91, expressed,MGD-MRK-33974,MGI:106282,TAP binding protein,TPN,Tapbp,tapasin	TAP binding protein
Taz	NM_001242616.2	5031411C02RIK,9130012G04RIK,AW107266,AW552613,G4.5,MGD-MRK-39625,MGI:1914076,MGI:1926060,MGI:2147995,MGI:2148024,RIKEN cDNA 5031411C02 gene,RIKEN cDNA 9130012G04 gene,Taz,expressed sequence AW107266,expressed sequence AW552613,tafazzin Z310042P22RIK,AA120735,AA408001,Ai527316,Cpr2,MGI:1922070,MGI:1927639,MGI:2143975,MGI:2144216,MGI:2144699,MGI:3527256,R74877,RIKEN cDNA Z310042P22 gene,TB-12,TBrg4,expressed sequence AA120735,expressed sequence AA408001,expressed sequence Ai527316,expressed sequence R74877,mKIAA0948,transforming growth factor beta regulated gene 4	tafazzin transforming growth factor beta regulated gene 4
Tbrg4	NM_001130457.1		transforming growth factor beta regulated gene 4
Tbx21	NM_019507.2	T-bet,T-box 21,TBT1,Tbet,Tblym,Tbx21	T-box 21
Tcf7	XM_006532802.2	Ai465550,transcription factor 7, T cell specific	transcription factor 7, T cell specific
Tcl1	NM_009337.3	T cell lymphoma breakpoint 1,Tcl1 AA408847,AW209012,MGI:2147170,MGI:2147355,Tcof1,expressed sequence AA408847,expressed sequence AW209012,treacle,treacle ribosome biogenesis factor 1	T cell lymphoma breakpoint 1 treacle ribosome biogenesis factor 1
Tcof1	NM_011552.3		treacle ribosome biogenesis factor 1
Tead1	NM_001166584.1	2610024807RIK,B230114H05RIK,Gtrge05,MGD-MRK-18702,MGD-MRK-18736,MGI:1917551,MGI:2444852,RIKEN cDNA 2610024807 gene,RIKEN cDNA B230114H05 gene,TEA domain family member 1,TEAD-1,TEF-1,Tcf13,Tea1, gene trap ROSA b-geo 5,mTEF-1,transcription factor 13	TEA domain family member 1
Tead2	NM_011565.2	Etdf,MGD-MRK-29058,TEA domain family member 2,TEAD-2,TEF-4,Tea2,embryonic TEA domain containing factor	TEA domain family member 2
Tek	NM_013690.2	AAS17024,Cd202b,Hyk,MGD-MRK-14991,MGD-MRK-16702,MGD-MRK-18601,MGI:2140157,TEK receptor tyrosine kinase,Tek,Tie2,adhesion structures linked tyrosine kinase,expressed sequence AAS17024,tie-2,tyrosine kinase receptor 2	TEK receptor tyrosine kinase telomeric repeat binding factor 2, interacting protein
Terf2ip	NM_020584.2	Rap1,Terf2ip,telomeric repeat binding factor 2, interacting protein	telomeric repeat binding factor 2, interacting protein
Tert	NM_009354.1	TR,Tert,telomerase reverse transcriptase	telomerase reverse transcriptase
Tet2	NM_001040400.2	Ayu17-449,E130014I05RIK,RIKEN cDNA E130014I05 gene,Tet2,mKIAA1546,tet methylcytosine dioxygenase 2	tet methylcytosine dioxygenase 2
Tfdp1	NM_009361.2	Dp1,Drtf1,MGD-MRK-18766,Tfdp1,transcription factor Dp 1	transcription factor Dp 1
Tgfb1	NM_011577.1	MGD-MRK-15063,MGD-MRK-15064,MGD-MRK-15067,TGF-beta 1,TGF-beta1,TGFbeta1,Tgfb,Tgfb-1,Tgfb1,transforming growth factor, beta 1 BB105277,MGD-MRK-15065,MGD-MRK-15068,MGI:2138633,Tgfb-beta2,Tgfb-2,Tgfb2,expressed sequence BB105277,transforming growth factor, beta 2	transforming growth factor, beta 1 transforming growth factor, beta 2
Tgfb2	NM_009367.1		transforming growth factor, beta 2
Tgfb3	NM_009368.3	MGD-MRK-15066,MGD-MRK-15069,Tgfb-3,Tgfb3,transforming growth factor, beta 3 1110020H15RIK,AU040218,MGD-MRK-15071,MGI:1923554,MGI:2143233,RIKEN cDNA 1110020H15 gene,TBR-1I,TbetaRII,TbetaRII,Tgfb2,expressed sequence AU040218,transforming growth factor, beta receptor II G1ah,MGD-MRK-15073,TG C,TG2,TGase2,Tgm2,protein-glutamine gamma-glutamyltransferase,TTG,TTGase,tissue transglutaminase,transglutaminase 2, C polypeptide	transforming growth factor, beta 3 transforming growth factor, beta receptor II
Tgfb2	NM_009371.2		transforming growth factor, beta receptor II
Tgm2	NM_009373.3		transglutaminase 2, C polypeptide
Thbs1	NM_011580.3	MGD-MRK-15083,MGD-MRK-15086,TSP-1,TSP1,Thbs-1,Thbs1,tbsp1,thrombospondin 1	thrombospondin 1
Thbs2	NM_011581.2	MGD-MRK-15084,MGD-MRK-15087,TSP2,Thbs-2,Thbs2,Thrombospondin-2,thrombospondin 2 ENSMUSG00000071552,T cell immunoreceptor with Ig and ITIM domains,Tigit,V-set and transmembrane domain containing 3,Vctm3,predicted gene, ENSMUSG00000071552	thrombospondin 2 T cell immunoreceptor with Ig and ITIM domains
Tigit	NM_001146325.1		T cell immunoreceptor with Ig and ITIM domains
Timeless	NM_001136082.1	C77407,MGI:2143916,Timeless,expressed sequence C77407,tim,timeless circadian clock 1	timeless circadian clock 1
Tjp1	NM_009386.1	MGD-MRK-15119,Tjp1,ZO-1,ZO1,tight junction protein 1	tight junction protein 1
Tlr3	NM_126166.2	Ai957183,MGI:2142652,Tlr3,expressed sequence Ai957183,toll-like receptor 3 Lps,MGD-MRK-11879,MGD-MRK-26042,RAS-like, family 2, locus 8,RasJ2-8,Tlr4,lipopolysaccharide response,toll-like receptor 4	toll-like receptor 3 toll-like receptor 4
Tlr4	NM_021297.3		toll-like receptor 4
Tmprss2	NM_015775.2	D16Etdt61e,DNA segment, Chr 16, ERATO Doi 61, expressed,MGI:1098555,Tmprss2,epitheliasin,transmembrane protease, serine 2	transmembrane protease, serine 2
Tnf	NM_013693.2	DIF,MGD-MRK-15151,MGD-MRK-28090,TNF alpha,TNF,Tnf,TnfA,Tnf,Tnfa,Tnfsf1a,tumor necrosis factor,tumor necrosis factor, alpha,tumor necrosis factor-alpha	tumor necrosis factor
Tnfaip3	NM_009397.2	A20,Tnfaip3,Tnfp3,tumor necrosis factor induced protein 3,tumor necrosis factor, alpha-induced protein 3,zinc finger protein A20	tumor necrosis factor, alpha-induced protein 3
Tnfrsf17	NM_011608.1	BCM,BCMA,Tnfrsf13,Tnfrsf13a,Tnfrsf17,tumor necrosis factor receptor superfamily, member 17	tumor necrosis factor receptor superfamily, member 17
Tnfrsf18	NM_009400.3	Gitr,Tnfrsf18,glucocorticoid-induced tumor necrosis factor related gene,tumor necrosis factor receptor superfamily, member 18	tumor necrosis factor receptor superfamily, member 18
Tnfrsf4	NM_011659.2	ACT35,CD134,MGD-MRK-13094,MGD-MRK-25943,Ox-40 T-cell antigen,Ox40,Tnfrsf4,Txgp1,tax-transcriptionally activated glycoprotein 1,tumor necrosis factor receptor superfamily, member 4 4-1BB,A930040I11RIK,AA408498,Ai325004,CD antigen 137,CDw137,CD137,ILA,Ly63,MGI:1925690,MGI:2140130,MGI:2140239,RIKEN cDNA A930040I11 gene,Tnfrsf9,expressed sequence AA408498,expressed sequence Ai325004,Jymphocyte antigen 63,tumor necrosis factor receptor superfamily, member 9	tumor necrosis factor receptor superfamily, member 4 tumor necrosis factor receptor superfamily, member 9
Tnfrsf9	NM_001077509.1		tumor necrosis factor receptor superfamily, member 9
Tnfsf11	NM_011613.3	Ly1091,ODF,OPGL,RANKL,TNF-related activation-induced cytokine,Tnfsf11,Trance,osteoclast differentiation factor,tumor necrosis factor (ligand) superfamily, member 11	tumor necrosis factor (ligand) superfamily, member 11
Tnfsf13b	NM_033622.1	BAFF,Blly5,D8Etdt387e,DNA segment, Chr 8, ERATO Doi 387, expressed,MGI:1196237,TALL-1,Tnfsf13b,tumor necrosis factor (ligand) superfamily, member 13b,2TNFA	tumor necrosis factor (ligand) superfamily, member 13b
Tnfsf14	NM_019418.3	HVEM-LIGHT,Tnfsf14,tumor necrosis factor (ligand) superfamily, member 14	tumor necrosis factor (ligand) superfamily, member 14

Tnfsf8	NM_009403.3	CD153,CD30 antigen ligand,CD30LG,Cd30L,Cd30I,MGD-MRK-1847,Tnfsf8,tumor necrosis factor (ligand) superfamily, member 8	tumor necrosis factor (ligand) superfamily, member 8
Tns1	NM_027884.3	1110018121Rik,1200014E20Rik,Ai648117,E030018G17Rik,E030037J05Rik,MGD-MRK-25984,MGI:1915754,MGI:1918975,MGI:2138313,MGI:2444104,RIKEN cDNA 1110018121 gene,RIKEN cDNA 1200014E20 gene,RIKEN cDNA E030018G17 gene,RIKEN cDNA E030037J05 gene,Tns,Tns1,expressed sequence Ai648117,tensin,tensin 1	tensin 1
Tns4	NM_172564.3	9930017A07Rik,AA589547,AU016405,MGI:2144031,RIKEN cDNA 9930017A07 gene,Tns4,expressed sequence AA589547,expressed sequence AU016405,tensin 4	tensin 4
Top2a	NM_011623.2	DNA Topoisomerase II alpha,MGD-MRK-15166,MGD-MRK-15169,Top-2,Top2a,topoisomerase (DNA) II,topoisomerase (DNA) II alpha	topoisomerase (DNA) II alpha
Tox	NM_145711.4	1700007F02Rik,MGI:1923819,RIKEN cDNA 1700007F02 gene,Tox,Thymocyte selection-associated high mobility group box	thymocyte selection-associated high mobility group box
Tox2	NM_001098799.1	AI851523,AV026525,B1987407,LOC269389,MGI:2139084,MGI:2139242,RxHMG1,TOX high mobility group box family member 2,Tox2,expressed sequence AI851523,expressed sequence AV026525,expressed sequence B1987407	TOX high mobility group box family member 2
Tox3	NM_172913.3	500-9,BC052044,C230068E13,CAGF9,DNA segment, 500-9,MGI:3573728,TOX high mobility group box family member 3,Tnrc9,Tox3,cDNA sequence BC052044,trinucleotide repeat containing 9	TOX high mobility group box family member 3
Tox4	NM_023434.3	5730589K01Rik,AA410149,MGI:2138093,RIKEN cDNA 5730589K01 gene,TOX high mobility group box family member 4,Tox4,expressed sequence AA410149	TOX high mobility group box family member 4
Tpd52	NM_001025261.1	AI043038,MGD-MRK-36325,MGI:2139619,Tpd52,expressed sequence AI043038,mD52,tumor protein D52	tumor protein D52
Tpi1	NM_009415.2	AI255506,MGD-MRK-15179,MGD-MRK-15180,MGI:2141384,Tpi-1,Tpi1,expressed sequence AI255506,triophosphate isomerase 1	triophosphate isomerase 1
Tpsab1	NM_031187.4	MGD-MRK-12149,MGD-MRK-12157,MMCP-7,Mcp-7,Mcpt7,Tpsab1,mast cell protease 7,tryptase alpha/beta 1	tryptase alpha/beta 1
Tpsb2	NM_010781.3	AV011504,MGD-MRK-12148,MGD-MRK-12156,MGI:2147011,MMCP-6,Mcp-6,Mcpt6,Tpsb2,expressed sequence AV011504,mast cell protease 6,tryptase beta 2	tryptase beta 2
Tpx2	NM_001141975.1	2610005B21Rik,DIL2,REPP86,RIKEN cDNA 2610005B21 gene,TPX2, microtubule-associated,Tpx2,p100	TPX2, microtubule-associated
Traf1	NM_009421.3	4732496E14Rik,MGD-MRK-18657,MGI:2443877,RIKEN cDNA 4732496E14 gene,TNF receptor-associated factor 1,Traf1	TNF receptor-associated factor 1
Traf6	NM_009424.2	2310003F17Rik,Ai851288,C630032O20Rik,MGD-MRK-37109,MGI:1919554,MGI:2139081,RIKEN cDNA 2310003F17 gene,RIKEN cDNA C630032O20 gene,TNF receptor-associated factor 6,Traf6,expressed sequence Ai851288	TNF receptor-associated factor 6
Trat1	NM_198297.4	C030046M14Rik,RIKEN cDNA C030046M14 gene,T cell receptor associated transmembrane adaptor 1,T cell receptor interacting molecule,Tcrim,Trat1,Trim	T cell receptor associated transmembrane adaptor 1
Trp53	NM_011640.3	MGD-MRK-15247,MGI:3584375,MGI:3584378,MGI:3584379,Trp53,p44,p53,transformation related protein 53	transformation related protein 53
Trp73	NM_001126330.1	TAp73,Trp73,deltaNp73,p73,transformation related protein 73	transformation related protein 73
Trrap	NM_001081362.1	AI481500,MGI:2140918,Trrap,expressed sequence AI481500,transactivation/transformation-domain associated protein,transformation/transcription domain-associated protein	transformation/transcription domain-associated protein
Tspan1	NM_133681.4	9030418M05Rik,RIKEN cDNA 9030418M05 gene,Tspan1,tetraspanin 1	tetraspanin 1
Ttk	NM_009445.2	AL022661,EsK1,MGI:2143170,Mps1,Ttk,Ttk protein kinase,expressed sequence AL022661	Ttk protein kinase
Tubg1	NM_134024.3	1500010O08Rik,Ai451582,Ai503389,MGC:8041,MGD-MRK-18655,MGI:1923590,MGI:2144173,MGI:2144203,RIKEN cDNA 1500010O08 gene,Tubg1,expressed sequence Ai451582,expressed sequence Ai503389,tubulin, gamma 1	tubulin, gamma 1
Txn1	NM_011660.3	AW550880,MGD-MRK-15309,MGI:2140594,Txn1,Txn1,expressed sequence AW550880,thioredoxin 1	thioredoxin 1
Txn2	NM_019913.5	2510006J11Rik,Ai788873,MGI:1915214,MGI:2146059,RIKEN cDNA 2510006J11 gene,Txn2,expressed sequence Ai788873,thioredoxin 2	thioredoxin 2
Txnrd2	NM_013711.2	AA118373,EST AA118373,ESTM573010,MGI:1338029,TGR,TR beta,TR3,Txnrd2,human EST 573010,thioredoxin reductase 2	thioredoxin reductase 2
Tyrobp	NM_011662.2	DAP12,KARAP,TYRO protein tyrosine kinase binding protein,Tyrobp,killer cell activating receptor associated protein	TYRO protein tyrosine kinase binding protein
Ube2c	NM_026785.2	1110015A16Rik,D2Etd695E,DNA segment, Chr 2, ERATO Doi 695, expressed,MGI:1277160,RIKEN cDNA 1110015A16 gene,Ube2c,ubiquitin-conjugating enzyme E2C	ubiquitin-conjugating enzyme E2C
Ube2t	NM_001278115.1	2700084L22Rik,C80607,MGI:2138694,RIKEN cDNA 2700084L22 gene,Ube2t,expressed sequence C80607,ubiquitin-conjugating enzyme E2T	ubiquitin-conjugating enzyme E2T
Uchl5	NM_001159866.1	5830413B11Rik,RIKEN cDNA 5830413B11 gene,Uchl37,Uchl5,ubiquitin carboxyl-terminal esterase L5	ubiquitin carboxyl-terminal esterase L5
Ugdh	NM_009466.2	UDP-glucose dehydrogenase,Udgdh,Ugdh	UDP-glucose dehydrogenase
Vav1	NM_011691.4	MGD-MRK-15381,Vav1,vav 1 oncogene	vav 1 oncogene
Vcp	NM_009503.3	AAA ATPase p97,CDC48,MGD-MRK-16720,Vcp,p97,p97/VCP,valosin containing protein	valosin containing protein
Vegfa	NM_009505.4	MGD-MRK-24046,VEGF-A,VEGF120,VEGF164,VEGF188,VFg,Vegf,Vegfa,vascular endothelial growth factor,vascular endothelial growth factor A	vascular endothelial growth factor A
Vegfb	NM_011697.3	MGD-MRK-33890,VEGF-B,Vegfb,Vrf,vascular endothelial growth factor B,vascular endothelial growth factor related protein	vascular endothelial growth factor B
Vegfc	NM_009506.2	AW228853,MGD-MRK-38168,MGI:2142780,VEGF-C,Vegfc,expressed sequence AW228853,vascular endothelial growth factor C	vascular endothelial growth factor C
Vegfd	NM_010216.1	Fig1,MGD-MRK-37073,MGI:2147877,VEGF-D,Vegfd,c-fos induced growth factor,vascular endothelial growth factor D	vascular endothelial growth factor D
Vwf	NM_011708.3	6820430P06Rik,Ai551257,B130011006Rik,MGD-MRK-15419,MGI:2141444,MGI:2443130,RIKEN cDNA 6820430P06 gene,RIKEN cDNA B130011006 gene,Von Willebrand factor,Vwf,expressed sequence Ai551257	Von Willebrand factor
Wasf2	NM_153423.6	AW742646,D4Erd13g,DNA segment, Chr 4, ERATO Doi 13, expressed,MGI:2140610,WAS protein family, member 2	WAS protein family, member 2
Wee1	NM_009516.3	MGD-MRK-23939,Wee1 homolog 1 (S. pombe),Wee1A	WEE 1 homolog 1 (S. pombe)
Wnt5a	NM_001256224.2	8030457G12Rik,MGD-MRK-15443,MGD-MRK-15453,MGI:1924815,RIKEN cDNA 8030457G12 gene,Wnt-5a,Wnt5a,wingless-type MMTV integration site family, member 5A	wingless-type MMTV integration site family, member 5A
Wrap53	NM_144824.2	BC021790,MGC:28622,WD repeat containing, antisense to Trp53,WD repeat domain 79,Wdr79,Wrap53,cDNA sequence BC021790	WD repeat containing, antisense to Trp53
Wwc1	NM_170779.1	AA408228,AU017197,BC037006,Kibra,MGC:47054,MGI:2143978,MGI:2144480,Ww, C2 and coiled-coil domain containing 1,Wwc1,cDNA sequence BC037006,expressed sequence AA408228,expressed sequence AU017197	WW, C2 and coiled-coil domain containing 1
Wwtr1	NM_133784.3	231005806Rik,2610021I22Rik,C78399,MGI:1917177,MGI:2140055,RIKEN cDNA 231005806 gene,RIKEN cDNA 2610021I22 gene,TAZ,WW domain containing transcription regulator 1,Wwtr1,expressed sequence	WW domain containing transcription regulator 1
Xbp1	NM_013842.2	C78399,transcriptional coactivator with PDZ binding motif	WW domain containing transcription regulator 1
Xcl1	NM_008510.1	D11Etd39e,DNA segment, Chr 11, ERATO Doi 39, expressed,MGD-MRK-15468,MGI:1098709,TREB-5,TREB5,X-box binding protein 1,XBP-1,Xbp1	X-box binding protein 1
Xcr2	NM_020570.2	AI661682,ATACTN,Ltn,MGD-MRK-26027,MGI:2138317,SCM-1,SCM-1a,Scyc1,Xcl1,chemokine (C motif) ligand 1,expressed sequence AI661682,lymphotactin,small inducible cytokine subfamily C, member 1 (lymphotactin)	chemokine (C motif) ligand 1
Xrcc2	NM_020570.2	4921524004Rik,8030409M04Rik,MGI:1918160,MGI:1925986,RIKEN cDNA 4921524004 gene,RIKEN cDNA 8030409M04 gene,RecA,X-ray repair complementing defective repair in Chinese hamster cells 2,Xrcc2	X-ray repair complementing defective repair in Chinese hamster cells 2
Yap1	NM_001171147.1	AI325207,MGD-MRK-24140,MGI:2143022,Yap,Yap1,Yki,expressed sequence AI325207,yes-associated protein 1,yorkie	yes-associated protein 1
Zap70	NM_009539.2	AI327364,MGD-MRK-16398,MGI:2138217,MGI:3584397,MGI:3584398,Srk,TZK,ZAP-70,Zap70,expressed sequence AI327364,mr t-less,mrle,mur,murdoch,shy related kinase,zeta-chain (TCR) associated protein kinase	zeta-chain (TCR) associated protein kinase
Zeb1	NM_011546.3	3110032K11Rik,AREB6,MEB1,MGD-MRK-14760,MGD-MRK-15303,MGD-MRK-19431,MGD-MRK-24149,MGI:1920415,MGI:98508,MGI:98871,Nii2,RIKEN cDNA 3110032K11 gene,Tcf18,Tcf8,Zeb,Zeb1,Zfhep,Zfh1a,Zfh1a,[delta]EF1,transcription factor 18,transcription factor 8,twirlr,zinc finger E-box binding homeobox 1,zinc finger homeobox 1a	zinc finger E-box binding homeobox 1
Zmy2	NM_177627.3	5830413P05Rik,FIM,MGC:51607,MYM,RAMP,RIKEN cDNA 5830413P05 gene,SCLL2,Zip198,Zmy2,zinc finger protein 198,zinc finger, MYM-type 2	zinc finger, MYM-type 2
Internal Reference Genes			
Abcf1	NM_013854.1	ATP-binding cassette, sub-family F (GCN20), member 1,AU041969,Abc50,Abcf1,D17Wsu166e,DNA segment, Chr 17, Wayne State University 166, expressed,GCN20,MGD-MRK-36426,MGI:107849,MGI:2147001,expressed sequence AU041969	ATP-binding cassette, sub-family F (GCN20), member 1
Dnajc14	NM_028873.4	5730551F12Rik,DRIP78,Dnaj heat shock protein family (Hsp40) member C14,Dnajc14,HDJ3,LIP6,RIKEN cDNA 5730551F12 gene	Dnaj heat shock protein family (Hsp40) member C14
Ercc3	NM_133658.1	Ercc-3,Ercc3,MGD-MRK-9577,MGD-MRK-9580,XPB,excision repair 3,excision repair cross-complementing rodent repair deficiency, complementation group 3	excision repair cross-complementing rodent repair deficiency, complementation group 3
G6pdx	NM_008062.2	G28A,G6pd,G6pdx,Gpdx,MGD-MRK-10225,MGD-MRK-33659,MGD-MRK-9915,glucose-6-phosphate dehydrogenase 1 X-linked,glucose-6-phosphate dehydrogenase X-linked	glucose-6-phosphate dehydrogenase X-linked

Gusb	NM_010368.1	AI747421,Gur,Gus,Gus-r,Gus-s,Gus-t,Gus-u,Gusb,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-9912,MGI:2140959,MGI:95873,MGI:95874,MGI:95875,MGI:95876,adipose storage deficiency,asd,beta-glucuronidase regulator,beta-glucuronidase structural,beta-glucuronidase systemic regulator,beta-glucuronidase temporal,expressed sequence AI747421,g,glucuronidase, beta	glucuronidase, beta
Mrp19	NM_026490.2	9030416F12Rik,D6ErtD157e,DNA segment, Chr 6, ERATO Doi 157, expressed,MGI:1098795,MGI:1915232,MRP-L15,Mrp19,RIKEN cDNA 9030416F12 gene,RLX1,Rpml15,mitochondrial ribosomal protein L19,ribosomal protein, mitochondrial, L15	mitochondrial ribosomal protein L19
Nrde2	NM_183155.2	6720454P05Rik,BC002230,MGI:2443747,Nrde2,RIKEN cDNA 6720454P05 gene,cDNA sequence BC002230,nrde-2 necessary for RNA interference, domain containing	nrde-2 necessary for RNA interference, domain containing
Oaz1	NM_008753.4	AZ-1,AZ1,Antizyme,MGD-MRK-38478,Oaz1,antizyme 1,ornithine decarboxylase antizyme 1	ornithine decarboxylase antizyme 1
Poir2a	NM_001291068.1	220kDa,MGD-MRK-14111,Polr2a,RNA polymerase II 1,Rpo2-1,polymerase (RNA) II (DNA directed) polypeptide A	polymerase (RNA) II (DNA directed) polypeptide A
Psmc4	NM_011874.2	CAR interacting protein 21,CIP21,MIP224,Psmc4,proteasome (prosome, macropain) 26S subunit, ATPase, 4 AAS17475,MGI:2140159,Pum1,Pumm,expressed sequence AAS17475,mKIAA0099,pumilio RNA-binding family member 1	proteasome (prosome, macropain) 26S subunit, ATPase, 4
Pum1	NM_001159605.1	2310034D06Rik,C81073,FP,MGI:2145519,RIKEN cDNA 2310034D06 gene,SDH2,SDHF,Sdha,expressed sequence	pumilio RNA-binding family member 1
Sdha	NM_023281.1	1200014H24Rik,5930416L09Rik,AI159724,MGI:1924358,MGI:2144075,RIKEN cDNA 1200014H24 gene,RIKEN	succinate dehydrogenase complex, subunit A, flavoprotein (Fp)
Sf3a1	NM_026175.5	cDNA 5930416L09 gene,Sf3a1,expressed sequence AI159724,splicing factor 3a, subunit 1	splicing factor 3a, subunit 1
Stk11ip	NM_027886.3	1200014D22Rik,BB131189,LIP1,LKB1IP,MGI:2138637,RIKEN cDNA 1200014D22 gene,Stk11ip,expressed sequence BB131189,serine/threonine kinase 11 interacting protein	serine/threonine kinase 11 interacting protein
Tbc1d10b	NM_144522.5	1110003P22Rik,C87963,MGI:2142375,RIKEN cDNA 1110003P22 gene,TBC1 domain family, member	TBC1 domain family, member 10b
Tbp	NM_013684.3	10b,Tbc1d10b,expressed sequence C87963	TATA box binding protein
Tfr	NM_011638.3	Gtf2d,MGD-MRK-18659,MGD-MRK-24009,TATA box binding protein,Tbp,general transcription factor IID	transferrin receptor
Tik2	NM_011903.3	2610028K12Rik,AI195355,A426448,AU015758,CD71,E430033M20Rik,MGD-MRK-12700,MGD-MRK-12701,MGD-MRK-15225,MGI:1923611,MGI:2146387,MGI:2146425,MGI:2146541,MGI:2442494,MGI:97229,Mtvr-1,Mtvr1,RIKEN cDNA 2610028K12 gene,RIKEN cDNA E430033M20 gene,TFR1,Tfr,Trfr,expressed sequence AI195355,expressed sequence A426448,expressed sequence AU015758,mammary tumor virus receptor	tousled-like kinase 2 (Arabidopsis)
Tmub2	NM_028076.3	1,p90,transferrin receptor	transmembrane and ubiquitin-like domain containing 2
Ubb	NM_011664.4	4933403M19Rik,MGI:1918299,PKIalpha,RIKEN cDNA 4933403M19 gene,Tik2,protein kinase U-alpha,tousled-like kinase 2 (Arabidopsis)	ubiquitin B
		2010008E23Rik,RIKEN cDNA 2010008E23 gene,Tmub2,transmembrane and ubiquitin-like domain containing 2	
		AL033289,MGD-MRK-15326,MGD-MRK-33606,MGI:2141542,Ubb,Ubb2,expressed sequence AL033289,ubiquitin 2,ubiquitin B	

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