

nCounter® Mouse Glial Profiling Panel - Gene and Probe Details

Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or Isoform information
Abca1	NM_013454.3	ABCA1,ATP-binding cassette 1,ATP-binding cassette, sub-family A (ABC1), member 1,Abc1,Abca1,MGD-MRK-16392 ATP-binding cassette, sub-family B (MDR/TAP), member 1A,Abcb1A,Evi32,MDR3,MGD-MRK-13285,MGD-MRK-13288,MGI:1928146,Mdr1a,P glycoprotein 3,P-glycoprotein,P-gp,Pgp,Pgy-3,Pgy3,ecotropic viral integration site 32,mdr-3,multiple drug resistant 1a	ATP-binding cassette, sub-family A (ABC1), member 1	
Abcb1a	NM_011076.1		ATP-binding cassette, sub-family B (MDR/TAP), member 1A	
Abcc3	NM_029600.3	1700019L09RIK,ATP-binding cassette, sub-family C (CFTR/MRP), member 3,Abcc3,MRP3,RIKEN cDNA 1700019L09 gene	ATP-binding cassette, sub-family C (CFTR/MRP), member 3	
Abcc8	NM_011510.3	ATP-binding cassette, sub-family C (CFTR/MRP), member 8,Abcc8,D930031B21RIK,MGD-MRK-33673,MGI:105993,MGI:3036285,RIKEN cDNA D930031B21 gene,SUR1,Sur,sulfonylurea receptor	ATP-binding cassette, sub-family C (CFTR/MRP), member 8	
Abce1	NM_015751.2	ATP-binding cassette, sub-family E (OABP), member 1,Abce1,C79080,MGI:2139480,Oabp,RNS4I (Eye),Rnasel,expressed sequence C79080,ribonuclease L (2',5'-oligoadenylate synthetase-dependent) inhibitor A1428558,ATP binding cassette subfamily G member 2 (Junior blood group),Abcg2,Bcrp,MGI:2141405,expressed sequence A142858	ATP-binding cassette, sub-family E (OABP), member 1	
Abcg2	NM_011920.3	8430425M24RIK,A1839867,Abi2,MGD-MRK-35374,MGI:1918752,MGI:2138331,RIKEN cDNA 8430425M24 gene,abi-1,interactor 2,expressed sequence A1839867	ATP binding cassette subfamily G member 2 (Junior blood group)	
Abi2	NM_001198570.1	AU018656,Acadm,MCAD,MGD-MRK-1024,MGI:2139874,acyl-Coenzyme A dehydrogenase, medium chain,expressed sequence AU018656	abi-1,interactor 2	
Acadm	NM_007382.5	1300003O09RIK,Acadsb,BB066609,MGI:2142281,RIKEN cDNA 1300003O09 gene,acyl-Coenzyme A dehydrogenase, short/branched chain,expressed sequence BB066609	acyl-Coenzyme A dehydrogenase, medium chain	
Acadsb	NM_025826.4	6330585C21RIK,Acad,Acad1,MGD-MRK-1027,MGD-MRK-1028,MGI:2443107,RIKEN cDNA 6330585C21 gene,acyl-coenzyme A acetyltransferase,acyl-Coenzyme A acetyltransferase 1	acyl-Coenzyme A dehydrogenase, short/branched chain	
Acad1	NM_144784.3		acyl-Coenzyme A acetyltransferase 1	
Acad2	NM_009338.3	AW742799,Acad2,MGD-MRK-1029,MGD-MRK-14817,MGD-MRK-14828,MGI:2147098,MGI:98537,Tcp-1x,Tcp1-rs1,Acetyl-Coenzyme A acetyltransferase 2,expressed sequence AW742799,t-complex protein 1, related sequence 1 A730098H14RIK,ATP citrate lyase,AWS38652,Acly,MGD-MRK-24127,MGI:2144554,MGI:2443004,RIKEN cDNA A730098H14 gene,expressed sequence AWS38652	Acetyl-Coenzyme A acetyltransferase 2	
Acly	NM_001199296.1	0610006017RIK,Acot13,RIKEN cDNA 0610006017 gene,Them2,acyl-CoA thioesterase 13,thioesterase superfamily member 2	ATP citrate lyase	
Acot13	NM_025790.2	fatty acyl Coenzyme A ligase, long chain 3,2610510B12RIK,Acsl3,C85929,Fac13,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 thioesterase 13	
Acsl3	NM_001136222.1		acyl-CoA synthetase long-chain family member 3	
Acsl4	NM_207625.2	9430020A05RIK,Acsl4,AU018108,Acsl4,Fac4,Lacs4,MGI:2147955,RIKEN cDNA 9430020A05 gene,acyl-CoA synthetase long-chain family member 4,expressed sequence AU018108,fatty acid Coenzyme A ligase, long chain 4	acyl-CoA synthetase long-chain family member 4	
Adam22	NM_001007220.2	290002103RIK,A1854032,Adam22,MDC2,MGI:1920099,MGI:2141002,RIKEN cDNA 290002103 gene,a disintegrin and metalloproteinase domain 22,expressed sequence A1854032	a disintegrin and metalloproteinase domain 22	
Adamts1	NM_009621.4	ADAM-TS1,ADAMTS-1,Adamts1,METH-1,METH1,MGD-MRK-38294,a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 1	a disintegrin-like and metalloproteinase (reprolysin type) with thrombospondin type 1 motif, 1	
Adar	NM_001038587.3	ADAR1,AV242451,Adar,Adar1p110,Adar1p150,MGI:2139942,adenosine deaminase, RNA-specific,expressed sequence AV242451,mzAdAR	adenosine deaminase, RNA-specific	
Adcy1	NM_009622.2	AC1,Adcy1,D118wg1392e,DNA segment, Chr 11, Brigham & Women's Genetics 1392, expressed, I-AC,MGD-MRK-16462,MGD-MRK-33713,MGD-MRK-34052,MGI:106629,MGI:106360,adenylate cyclase 1,barrelless,brl	adenylate cyclase 1	
Adcy5	NM_001012765.4	ACS,AW121902,Adcy5,MGD-MRK-16458,MGI:2146623,adenylate cyclase 5,expressed sequence AW121902	adenylate cyclase 5	
Adcyap1r1	NM_001025372.2	290002104RIK,A1846590,Adcyap1r1,MGD-MRK-37493,MGI:1920204,MGI:2141492,PAC1,PAC1R,PAcAP1-R,RIKEN cDNA 290002104 gene,adenylate cyclase activating polypeptide 1 receptor 1,expressed sequence A1846590	adenylate cyclase activating polypeptide 1 receptor 1	
Adgra2	NM_054044.2	8430414008RIK,9530074E10RIK,Adgra2,G protein-coupled receptor 124,Gpr124,MGI:1918709,RIKEN cDNA 8430414008 gene,RIKEN cDNA 9530074E10 gene, Tem5,adhesion G protein-coupled receptor A2,mKIAA1531	adhesion G protein-coupled receptor A2	
Adgrg1	NM_018882.3	Adgrg5,CY228,G protein-coupled receptor 56,Gpr56,adhesion G protein-coupled receptor G1	adhesion G protein-coupled receptor G1	
Adgrl4	NM_133222.3	1110033N21RIK,Adgrl4,EGF, latrophilin seven transmembrane domain containing 1,EGF-1TM7 receptor, EtlD1, Etl,MGI:1923571,RIKEN cDNA 1110033N21 gene,adhesion G protein-coupled receptor L4	adhesion G protein-coupled receptor L4	
Adh5	NM_007410.3	Adh-5,Adh3,Adh5,GSNOR,MGD-MRK-1119,MGD-MRK-1128,5-nitrosoglutarathione reductase,alcohol dehydrogenase 5 (class III), chi polypeptide	alcohol dehydrogenase 5 (class III), chi polypeptide	
Adora1	NM_001008533.3	A1-AR,A1AR,A1R,AA1R,A1848715,ARA1,Adora1,BB176431,MGD-MRK-16162,MGI:2138349,MGI:2138644,RI,adenosine A1 receptor,expressed sequence A1848715,expressed sequence BB176431	adenosine A1 receptor	
Adora2b	NM_007413.4	A2BAR,A2BR,A2b,A2b, Rs,AA2BR,A18480866,A1605384,ARA2B,Adora2b,MGD-MRK-16164,MGI:2144194,MGI:2144239,adenosine A2b receptor,expressed sequence A18480866,expressed sequence A1605384	adenosine A2b receptor	
Adora3	NM_009631.4	1700001D09RIK,4930578J19RIK,A3AR,A3R,AA3R,ARA3,Adora3,G-protein coupled receptor 2,Gprc2,Gprc2,MGD-MRK-16343,MGD-MRK-28143,MGI:1916546,MGI:1923096,MGI:99563,RIKEN cDNA 1700001D09 gene,RIKEN cDNA 4930578J19 gene,adenosine A3 receptor	adenosine A3 receptor	
Adrb1	NM_007419.3	Adrb-1,Adrb1,MGD-MRK-1143,MGD-MRK-1146,adrenergic receptor, beta 1,beta 1-AR	adrenergic receptor, beta 1	
Agmo	NM_178767.5	A530016O06RIK,A1790538,Agmo,MGI:2144885,RIKEN cDNA A530016O06 gene,Tmem195,alkylglycerol monoxygenase,expressed sequence A1790538,transmembrane protein 195	alkylglycerol monoxygenase	
Ahcy1l	NM_001357113.1	1110034F20RIK,AA409031,AA414901,Ahcy-rs3,Ahcy-rs3,DCAL,EST AA409031,IRBIT,MGD-MRK-36379,MGI:107802,MGI:1353558,MGI:1920995,MGI:2139575,RIKEN cDNA 1110034F20 gene,S-adenosylhomocysteine hydrolase, related sequence 3,S-adenosylhomocysteine hydrolase-like 1,expressed sequence AA414901	S-adenosylhomocysteine hydrolase-like 1	
Aif1	NM_019467.2	A1607846,Aif1,D17H6550E,DNA segment, Chr 17, human D6S50E,G1,Iba1,MGD-MRK-4478,MGI:2146897,MGI:90671,allograft inflammatory factor 1,expressed sequence A1607846	allograft inflammatory factor 1	
Akt1	NM_001165894.1	Akt,Akt1,MGD-MRK-1257,PKB,PKB/Akt,PKBalpha,thymoma viral proto-oncogene 1	thymoma viral proto-oncogene 1	
Akt3	NM_011785.3	A1815131,Akt3,D930002M15RIK,MGI:2138357,MGI:3628555,NmF50,PKB gamma,RIKEN cDNA D930002M15 gene,expressed sequence A1815131,neuroscience mutagenesis facility, 350,thymoma viral proto-oncogene 3	thymoma viral proto-oncogene 3	
Alas1	NM_020559.2	5-aminolevulinic acid synthase,ALAS-N,Alas1,Alas1,MGD-MRK-1268,MGD-MRK-1270,aminolevulinic acid synthase 1,succinyl-CoA: glycine C-succinyl transferase	aminolevulinic acid synthase 1	
Aldh1a1	NM_013467.3	ALDH1,Ahd-2,Ahd2,Aldh1,Aldh1A1,E1,MGD-MRK-1206,MGD-MRK-1213,MGD-MRK-16383,MGI:99601,Raldh1,aldehyde dehydrogenase 1, liver cytosolic (class 1),aldehyde dehydrogenase 2, cytoplasmic,aldehyde dehydrogenase family 1, subfamily A1	aldehyde dehydrogenase family 1, subfamily A1	
Aldh1l1	NM_027406.1	1810048F20RIK,Aldh1l1,Fthfd,MGI:1917624,RIKEN cDNA 1810048F20 gene,aldehyde dehydrogenase 1 family, member L1,formyltetrahydrofolate dehydrogenase	aldehyde dehydrogenase 1 family, member L1	
Amigo1	NM_001004293.2	Amigo1,adhesion molecule with Ig like domain 1	adhesion molecule with Ig like domain 1	
Amigo2	NM_001164602.1	AH15330,AW208913,Amigo2,MGI:2146206,adhesion molecule with Ig like domain 2,expressed sequence AH15330,expressed sequence AW208913	adhesion molecule with Ig like domain 2	
Amph	NM_175007.1	Amph,MGD-MRK-24450,amphiphysin	amphiphysin	
Anapc1	NM_008569.2	2610021O03RIK,A1047775,A1853536,AWS47281,Anapc1,Apcl1,MGD-MRK-23961,MGI:1923795,MGI:2138834,MGI:2139095,MGI:2139376,Mcpr,RIKEN cDNA 2610021O03 gene,anaphase promoting complex subunit 1,expressed sequence A1047775,expressed sequence A1853536,expressed sequence AWS47281,meiotic check point regulator,tsq24	anaphase promoting complex subunit 1	
Anapc7	NM_019805.4	APC7,AWS45589,Anapc7,MGI:2141217,anaphase promoting complex subunit 7,expressed sequence AWS45589,preadiabetic NOD sera-reactive autoantigen	anaphase promoting complex subunit 7	
Ank	NM_020332.4	Ank,D15Erd221e,DNA segment, Chr 15, ERATO Doi 221, expressed,MGD-MRK-1323,MGI:1098556,MGI:88023,ank,mKIAA1581,progressive ankylosis	progressive ankylosis	
Ank2	NM_178655.3	100043364,A1835472,AW491075,Ank-2,Ank2,Ankyrin-2,Ankyrin-B,Gm4392,MGD-MRK-1325,MGD-MRK-1328,MGI:2139799,MGI:2139987,MGI:3782577,ankyrin 2, brain,ankyrin B,expressed sequence A1835472,expressed sequence AW491075,predicted gene 4392,predicted gene, 100043364	ankyrin 2, brain	
Ap2m1	NM_009679.2	AP2m1,adaptor-related protein complex 2, mu 1 subunit,clathrin-associated AP-2	adaptor-related protein complex 2, mu 1 subunit	
Ap3m2	NM_001122820.1	5830445E16RIK,AP-3B,Ap3m2,MGI:1923308,RIKEN cDNA 5830445E16 gene,adaptor-related protein complex 3, mu 2 subunit	adaptor-related protein complex 3, mu 2 subunit	
Aplp2	NM_001102456.2	A1790698,Aplp2,MGD-MRK-1361,MGI:2143122,amyloid beta (A4) precursor-like protein 2,expressed sequence A1790698	amyloid beta (A4) precursor-like protein 2	
ApoE	NM_001305844.1	A1255918,ApoE,MGD-MRK-1376,MGI:2141887,apolipoprotein E,expressed sequence A1255918	apolipoprotein E	
App	NM_007471.2	AL024401,Abeta,Adsp,Alzheimer disease amyloid beta protein,App,Cvap,E030013M08RIK,MGD-MRK-1105,MGD-MRK-1378,MGD-MRK-2255,MGI:2146529,MGI:2442007,RIKEN cDNA E030013M08 gene,amyloid beta (A4) precursor protein,aplan,aplan,APP,cererebrovascular amyloid peptide,expressed sequence AL024401,protase nexin II	amyloid beta (A4) precursor protein	
Aqp4	NM_009700.2	Aqp4,MGD-MRK-35854,aquaporin 4,aquaporin-4	aquaporin 4	
Arg2	NM_009705.2	AII,AU022422,Arg2,MGI:2144959,arginase type II,expressed sequence AU022422	arginase type II	
Arlfp5	NM_022992.2	5930404D22RIK,ADP-ribosylation factor-like 6 interacting protein 5,AV001879,Aip-5,Arlfp5,Gtrap3-18,MGI:1915343,MGI:2141607,RIKEN cDNA 5930404D22 gene,adducin,expressed sequence AV001879	ADP-ribosylation factor-like 6 interacting protein 5	
Arntl	NM_007489.3	Arnt3,Arntl,Bmal1,MOP3,aryl hydrocarbon receptor nuclear translocator-like,bHLHe5	aryl hydrocarbon receptor nuclear translocator-like	
Arcp1a	NM_019767.2	0610010H08RIK,1110030K07RIK,AA407347,Arpc1a,MGI:1914685,MGI:1924157,MGI:2140724,RIKEN cDNA 0610010H08 gene,RIKEN cDNA 1110030K07 gene,Sid32,actin related protein 2/3 complex, subunit 1A,expressed sequence AA407347	actin related protein 2/3 complex, subunit 1A	
Arcp2	NM_029711.1	2210023N03RIK,Arcp2,RIKEN cDNA 2210023N03 gene,actin related protein 2/3 complex, subunit 2,p34-Arc	actin related protein 2/3 complex, subunit 2	
Arcp5l	NM_028809.1	2010015J01RIK,A1852867,ARC16-2,AW55592,AW742746,Arcp5l,MGI:2139091,MGI:2139397,MGI:2139411,RIKEN cDNA 2010015J01 gene,actin related protein 2/3 complex, subunit 5-like,expressed sequence A1852867,expressed sequence AW55592,expressed sequence AW742746	actin related protein 2/3 complex, subunit 5-like	

Asns	NM_012055.3	Asns,asparagine synthetase	asparagine synthetase
Ass1	NM_007494.3	AA408052,Ass1,Ass1,MGD-MRK-1430,MGD-MRK-1433,MGI:2143462,MGI:3665141,argininosuccinate synthetase 1,argininosuccinate synthetase 1,expressed sequence AA408052,fold,follicular dystrophy	argininosuccinate synthetase 1
Atf2	NM_001284371.1	ATF-2,Atf2,CREB,C/EBP,C/EBPbeta,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
Atg12	NM_026217.3	4931423H11Rik,A330058M13Rik,App12,Atg12,MGI:2443723,RIKEN cDNA 4931423H11 gene,RIKEN cDNA A330058M13 gene,autophagy 12-like (S. cerevisiae),autophagy related 12	autophagy related 12
Atg2b	NM_029654.4	2410024A21Rik,A047755,AI503411,AW558123,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 AI07755,expressed sequence AI503411,expressed sequence AW558123	autophagy related 2B
Atg5	NM_052060.6	2010107M05Rik,3110067M24Rik,AW319544,Apge5,Atg5,C88337,MGI:1277148,MGI:1917267,MGI:1920439,MGI:2143833,MGI:2143950,Paddy,RIKEN cDNA 2010107M05 gene,RIKEN cDNA 3110067M24 gene,autophagy 5-like (S. cerevisiae),autophagy related 5,expressed sequence AW319544,expressed sequence C88337,paddy	autophagy related 5
Atp1a1	NM_144900.1	ATPase,Na+/K+ transporting, alpha 1 polypeptide,Atp1a1,Atpa-1,BCD10319,MGD-MRK-1457,MGD-MRK-1470,MGI:2387620,Na,K-ATPase alpha 1,cDNA sequence BC010319	ATPase,Na+/K+ transporting, alpha 1 polypeptide
Atp1b1	NM_009721.6	ATPase,Na+/K+ transporting, beta 1 polypeptide,Atp1b1,Atpb,Atpb-1,MGD-MRK-1460,MGD-MRK-1473,MGD-MRK-1474,Na,K-ATPase beta,Na,K-ATPase beta 1,sodium/potassium ATPase beta subunit	ATPase,Na+/K+ transporting, beta 1 polypeptide
Atp2a2	NM_009722.3	9530097L16Rik,ATPase,Ca++ transporting, cardiac muscle, slow twitch 2,Atp2a2,DSWsu150e,DNA segment,Chr 5,Wayne State University 150,expressed,MGD-MRK-1463,MGD-MRK-35783,MGI:107317,MGI:2441754,RIKEN cDNA 9530097L16 gene,SERCA2,SERCA2B,Serca2a,sarco/endoplasmic reticulum Ca2+-ATPase 2	ATPase,Ca++ transporting, cardiac muscle, slow twitch 2
Atp2b2	NM_001036684.3	ATPase,Ca++ transporting, plasma membrane 2,Atp2b2,D6Abb2e,DNA segment,Chr 6,Abbott 2e,Gena300,Genetics Harwell,300,MGD-MRK-15437,MGD-MRK-15460,MGD-MRK-32111,MGD-MRK-33037,MGD-MRK-8835,MGI:2158365,MGI:3664090,MGI:5490332,MGI:94888,MGI:98965,PMCA2,Tmy,deaf	ATPase,Ca++ transporting, plasma membrane 2
Atp2b3	NM_177236.3	waddler,d1w,jog,joggle,tommy,wms,wri,wriggle,wriggle mouse Sagami	ATPase,Ca++ transporting, plasma membrane 3
Atp2b4	NM_001167949.1	6430519013Rik,ATPase,Ca++ transporting, plasma membrane 3,Atp2b4,MGI:2445477,Pmca3,RIKEN cDNA 6430519013 gene	ATPase,Ca++ transporting, plasma membrane 3
Atp5b	NM_016774.3	ATP synthase,H+ transporting mitochondrial F1 complex, beta subunit,Atp5b,MGD-MRK-36378	ATP synthase,H+ transporting mitochondrial F1 complex, beta subunit
Atp5g3	NM_175015.2	ATP synthase,H+ transporting, mitochondrial FO complex, subunit C3 (subunit 9),Atp5g3	ATP synthase,H+ transporting, mitochondrial FO complex, subunit C3 (subunit 9)
Atp5pb	NM_009725.3	ATP synthase peripheral stalk-membrane subunit b,ATP synthase,H+ transporting, mitochondrial FO complex, subunit B1,Atp5f1,Atp5pb,C76477,MGI:2140039,expressed sequence C76477	ATP synthase peripheral stalk-membrane subunit b
Atp6v0d1	NM_013477.3	A1267038,ATPase,H+ transporting, lysosomal (vacuolar proton pump), 42 kDa,ATPase,H+ transporting, lysosomal V0 subunit D1,Ac39,Atp6d,Atp6v0d1,MGI:2142492,P39,Vma6,expressed sequence A1267038,lysosomal 38kDa	ATPase,H+ transporting, lysosomal V0 subunit D1
Atp6v1a	NM_007508.5	A1647066,ATPase,H+ transporting, lysosomal (vacuolar proton pump), 42 kDa,ATPase,H+ transporting, lysosomal V1 subunit A,Atp6a1,Atp6v1a,MGI:2146472,VA68,VPP2,expressed sequence A1647066,lysosomal 70kDa	ATPase,H+ transporting, lysosomal V1 subunit A
Atp6v1b2	NM_007509.3	A1194269,A1790362,ATPase,H+ transporting, lysosomal (vacuolar proton pump), beta 56/58 kDa, isoform 2,ATPase,H+ transporting, lysosomal V1 subunit B2,Atp6b2,Atp6v1b2,H057,MGD-MRK-39617,MGI:2142474,MGI:2142617,MGI:2142893,R74844,expressed sequence A1194269,expressed sequence A1790362,expressed sequence R74844	ATPase,H+ transporting, lysosomal V1 subunit B2
Atp6v1c1	NM_025494.3	1700025B18Rik,ATPase,H+ transporting, lysosomal V1 subunit C1,Atp6v1c1,MGI:2146327,RIKEN cDNA 1700025B18 gene,U13839,expressed sequence U13839	ATPase,H+ transporting, lysosomal V1 subunit C1
Atp6v1d	NM_023721.2	1110004F10Rik,ATPase,H+ transporting, lysosomal (vacuolar proton pump),ATPase,H+ transporting, lysosomal V1 subunit D,Atp6m,Atp6v1d,RIKEN cDNA 1110004F10 gene,VATD,Vma8,lysosomal 34kDa	ATPase,H+ transporting, lysosomal V1 subunit D
Atp6v1e1	NM_007510.2	2410029D23Rik,ATPase,H+ transporting, lysosomal (vacuolar proton pump), 32 kDa,ATPase,H+ transporting, lysosomal 31kDa, V1 subunit E,ATPase,H+ transporting, lysosomal V1 subunit E1,Atp6e,Atp6e2,Atp6v1e1,D6ErtD385e,DNA segment,Chr 6, ERATO Doi 385, expressed,E2,H(+)-ATPase E-like protein,H+ ATPase subunit E,MGI:1261800,MGI:1924021,RIKEN cDNA 2410029D23 gene,lysosomal 31kDa	ATPase,H+ transporting, lysosomal V1 subunit E1
Atp6v1g1	NM_024173.1	1810024D14Rik,AA960677,ATP6j,ATPase,H+ transporting, lysosomal (vacuolar proton pump),ATPase,H+ transporting, lysosomal V1 subunit G1,Atp6g1,Atp6v1g1,MGI:2138817,RIKEN cDNA 1810024D14 gene,VAG1,Vma10,expressed sequence AA960677,lysosomal 13kDa	ATPase,H+ transporting, lysosomal V1 subunit G1
Atp6v1g2	NM_023179.3	1500002D01Rik,ATPase,H+ transporting, lysosomal (vacuolar proton pump),ATPase,H+ transporting, lysosomal V1 subunit G2,Atp6g2,Atp6v1g2,NG38,RIKEN cDNA 1500002D01 gene,VAG2,lysosomal 13kDa	ATPase,H+ transporting, lysosomal V1 subunit G2
Atp6v1h	XM_006495434.2	0710001F19Rik,ATPase,H+ transporting, lysosomal V1 subunit H,AU022349,Atp6v1h,MGI:2138471,RIKEN cDNA 0710001F19 gene,expressed sequence AU022349	ATPase,H+ transporting, lysosomal V1 subunit H
Atp8a2	NM_015803.2	A1415030,ATPase,aminophospholipid transporter-like, class I, type 8A, member 2,Atp8a2,lb,MGD-MRK-15403,MGD-MRK-15435,MGI:2145631,MGI:2667527,MGI:98951,agil,aglitans-like,expressed sequence A1415030,vestibulomotor degeneration,vmd,wabblers-lethal,wl	ATPase,aminophospholipid transporter-like, class I, type 8A, member 2
Atp9a	NM_015731.3	ATPase, class II, type 9A,Atp9a, class II,IIa,mkIAA0611	ATPase, class II, type 9A
Atr	NM_019864.1	Atr,MGD-MRK-37064,ataxia telangiectasia and Rad3 related	ataxia telangiectasia and Rad3 related
Atrn	NM_009730.2	AW558010,Atrn,MGD-MRK-12216,MGI:2139403,MGI:96972,Mgca,attractin,expressed sequence	attractin
Axl	NM_009465.4	AW558010,mkIAA0548,mahogany,mg	attractin
B2m	NM_009735.3	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
B3gnt5	NM_001159407.1	B2m,Ly-m11,MGD-MRK-12010,MGD-MRK-1492,beta 2 microglobulin,beta-2 microglobulin,beta-2-m,lymphocyte antigen m11	beta-2 microglobulin
B4galt5	NM_019835.2	B3gnt5,UDP-GlcNAc:betaGal-beta-1,3-N-acetylglucosaminyltransferase 5	UDP-GlcNAc:betaGal-beta-1,3-N-acetylglucosaminyltransferase 5
B4galt6	NM_019737.2	943007807Rik,AW049941,AW539721,B4galt5,MGI:1924610,MGI:2139281,MGI:2139367,RIKEN cDNA 943007807 gene,UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5,expressed sequence AW049941,expressed sequence AW539721	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 5
B4galt6	NM_019737.2	AA536803,AU022389,B4galt6,MGI:2147179,MGI:2147314,UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6,expressed sequence AA536803,expressed sequence AU022389	UDP-Gal:betaGlcNAc beta 1,4-galactosyltransferase, polypeptide 6
Bace1	NM_001145947.2	Bace1,C76936,MGI:2143381,beta-site APP cleaving enzyme 1,expressed sequence C76936	beta-site APP cleaving enzyme 1
Basp1	NM_027395.2	2610024P12Rik,Basp1,CAP-23,CAP23,Ckap3,MGI:1929858,RIKEN cDNA 2610024P12 gene,brain abundant, membrane attached signal protein 1,cytoskeleton associated protein 3	brain abundant, membrane attached signal protein 1
Bax	NM_007527.3	BCL2-associated X protein,Bax,MGD-MRK-16487	BCL2-associated X protein
Bcas1	NM_029815.2	2210416M21Rik,9030223A09Rik,A1841227,Bcas1,MGI:1924916,MGI:2139067,NABCl,RIKEN cDNA 2210416M21 gene,RIKEN cDNA 9030223A09 gene,breast carcinoma amplified sequence 1,expressed sequence A1841227	breast carcinoma amplified sequence 1
Bdnf	NM_007540.4	Bdnf,MGD-MRK-1534,brain derived neurotrophic factor	brain derived neurotrophic factor
Becn1	NM_019584.4	Atg6,Becn1,MGC:6843,beclin 1, autophagy related	beclin 1, autophagy related
Bhlhe40	NM_011498.4	Bhhb2,Bhlhe40,C130042M06Rik,CR8,Clast5,DEC1,MGI:2443526,RIKEN cDNA C130042M06 gene,Sharp,2,Strat13,Strat14,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
Bhlhe41	NM_024469.1	6430520M22Rik,Bhlhb3,Bhlhe41,DEC2,MGI:1355306,MGI:2442594,RIKEN cDNA 6430520M22 gene,Sharp1,basic helix-loop-helix domain containing, class B3,basic helix-loop-helix family, member e41,enhancer-of-split and hairy-related protein 1	basic helix-loop-helix family, member e41
Bin1	NM_001083334.1	Amphiphysin 2,Amph1,Bin1,MGD-MRK-37129,MGI:700008,amphiphysin-like,bridging integrator 1	bridging integrator 1
Btk	NM_007549.2	B lymphoid kinase,Btk,MGD-MRK-1577	B lymphoid kinase
Braf	NM_139294.5	9930012E13Rik,AA120551,AA387315,AA473386,Braf,Braf transforming gene,Braf transforming gene 2,Braf-2,Braf,C87398,D6ErtD631e,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
Btrc	NM_009771.3	Beta-Trcp1,Btrc,Fbw1a,SCF-bTRCP,Slimb,beta-TrCP,beta-transducin repeat containing protein	beta-transducin repeat containing protein
Bub3	NM_009774.3	AU019800,AU021329,AU043350,AW146323,BUB3 mitotic checkpoint protein,Bub3,C78067,MGI:2142137,MGI:2142160,MGI:2142214,MGI:2142325,MGI:2146981,expressed sequence AU019800,expressed sequence AU021329,expressed sequence AU043350,expressed sequence AW146323,expressed sequence C78067	BUB3 mitotic checkpoint protein
C1qa	NM_007572.2	A1255395,C1q,C1qa,MGD-MRK-1696,MGI:2140213,complement component 1, q subcomponent, alpha polypeptide,expressed sequence A1255395	complement component 1, q subcomponent, alpha polypeptide
C1qb	NM_009777.2	C1qb,MGD-MRK-1697,complement component 1, q subcomponent, beta polypeptide	complement component 1, q subcomponent, beta polypeptide
C1qc	NM_007574.2	A1385742,C1q,C1qg,MGD-MRK-1698,MGI:2140252,complement component 1, q subcomponent, C chain,complement component 1, q subcomponent, c polypeptide,complement component 1, q subcomponent, gamma polypeptide,expressed sequence A1385742	complement component 1, q subcomponent, C chain
C1ra	NM_023143.3	A132558,C1ra,MGI:2141380,MGI:3719032,complement component 1, r subcomponent A,expressed sequence A132558,mC1ra	complement component 1, r subcomponent A
C1s1	NM_144938.2	AA959438,A1255193,A1327365,C1s,C1s1,EST A1255193,MGI:1353567,MGI:2141372,MGI:2141399,complement component 1, s subcomponent,complement component 1, s subcomponent 1,expressed sequence	complement component 1, s subcomponent 1
C3	XM_011246258.1	AA959438,expressed sequence A1327365	complement component 1, s subcomponent 1
C3ar1	NM_009779.2	A1255234,C3,MGD-MRK-1700,MGI:2146809,Plp,acylation stimulating protein,complement component 3,complement factor 3,expressed sequence A1255234	complement component 3
C4a/b	NM_011413.2	AA473386,expressed sequence C87398	complement component 3a receptor 1

C9orf72	NM_001081343.1	3110043021RIK, AI840585, C9orf72, C9orf72, member of C9orf72-SMCR8 complex, Dnend9, MGI:2140370, RIKEN cDNA	C9orf72, member of C9orf72-SMCR8 complex
Cables1	NM_022021.2	3110043021 gene, expressed sequence AI840585 CDK5 and Abl enzyme substrate 1, Cables1, ik3-1, interactor-1 with cdk3 AW050276, AW060892, AW822256, Cacna1b, Cav2.2, Cchn1a, MGD-MRK-1803, MGI:2139282, MGI:2139293, MGI:2139419, alpha1(B), calcium channel, N type IA subunit, calcium channel, voltage-dependent, N type, alpha 1B subunit, expressed sequence AW050276, expressed sequence AW060892, expressed sequence AW822256	CDK5 and Abl enzyme substrate 1
Cacna1b	NM_001042528.1	Cacna1b, Cav2.3, Cchn1a, MGD-MRK-33909, alpha1E, calcium channel, R type, alpha 1, calcium channel, voltage-dependent, R type, alpha 1E subunit	calcium channel, voltage-dependent, N type, alpha 1B subunit
Cacna1e	NM_009782.3	Cacna1e, Cav2.3, Cchn1a, MGD-MRK-33909, alpha1E, calcium channel, R type, alpha 1, calcium channel, voltage-dependent, R type, alpha 1E subunit	calcium channel, voltage-dependent, R type, alpha 1E subunit
Cacna2d1	NM_001110845.1	Ca1/alpha2delta1, Cacna2, Cacna2d1, Cch2a, MGD-MRK-1801, calcium channel, L type, 2A subunit, calcium channel, voltage-dependent, L type, alpha 2 delta subunit, calcium channel, voltage-dependent, alpha2/delta subunit 1	calcium channel, voltage-dependent, alpha2/delta subunit 1
Cacna2d3	NM_009785.1	Cacna2d3, alpha 2 delta 3, alpha2delta3, calcium channel, voltage-dependent, alpha2/delta subunit 3	calcium channel, voltage-dependent, alpha2/delta subunit 3
Cacnb2	NM_023116.3	AW060387, BC056183, Cacnb2, Cavbeta2, Cchb2, MGD-MRK-24068, MGI:103200, MGI:2139283, MGI:3583767, cDNA sequence BC056183, calcium channel, B2 subunit, calcium channel, voltage-dependent, beta 2 subunit, expressed sequence AW060387	calcium channel, voltage-dependent, beta 2 subunit
Calm1	NM_009790.5	AI256814, AI327027, AI461935, AL024000, Calm1, MGD-MRK-1734, MGI:2144778, MGI:2144797, MGI:2144834, MGI:2144926, calmodulin 1, expressed sequence AI256814, expressed sequence AI327027, expressed sequence AI461935, expressed sequence AL024000	calmodulin 1
Calm2	NM_007589.4	1500001E21RIK, AL024017, Calm2, MGD-MRK-24126, MGI:1922950, MGI:2146954, RIKEN cDNA 1500001E21	calmodulin 2
Calm3	NM_007590.3	gene, calmodulin 2, expressed sequence AL024017 Calm3, MGD-MRK-24125, MGI:2142387, R75142, calmodulin 3, expressed sequence R75142	calmodulin 3
Camk2a	NM_177407.4	Camk2a, MGD-MRK-1743, MGI:2147420, R74975, alpha-CaMKII, calcium/calmodulin-dependent protein kinase II alpha, expressed sequence R74975, mKIAA0968	calcium/calmodulin-dependent protein kinase II alpha
Camk2d	NM_001025439.1	2810011D23RIK, 8030469K03RIK, CaMK II, Camk2d, MGC:60852, MGI:1923610, MGI:1924420, RIKEN cDNA 2810011D23 gene, RIKEN cDNA 8030469K03 gene, calcium/calmodulin-dependent protein kinase II, delta	calcium/calmodulin-dependent protein kinase II, delta
Camk2g	NM_001039139.2	5930429P18RIK, Ca2+/calmodulin-dependent protein kinase II, CaMK II, Camk2g, Camk2g, MGD-MRK-1746, MGI:2442091, RIKEN cDNA 5930429P18 gene, calcium/calmodulin dependent protein kinase gamma, calcium/calmodulin-dependent protein kinase II gamma	calcium/calmodulin-dependent protein kinase II gamma
Camk4	NM_009793.3	AI430110E23RIK, AI666733, Ca2+/calmodulin-dependent protein kinase type IV/Gr, CaMKIV, Gr, Camk4, D188wg0362e, DNA segment, Chr 18, Brigham & Women's Genetics 0362 expressed, MGD-MRK-1745, MGD-MRK-33961, MGI:106269, MGI:2147260, MGI:3026992, RIKEN cDNA A430110E23 gene, calcium/calmodulin-dependent protein kinase IV, expressed sequence AI666733	calcium/calmodulin-dependent protein kinase IV
Casp3	NM_009810.2	A830040C14RIK, AC-3, Apopain, C3, CPP32, Casp3, Caspase-3, MGD-MRK-36315, MGI:2442726, MGI:3717434, RIKEN cDNA A830040C14 gene, Yama, caspase 3, melody, mldy	caspase 3
Ccl12	NM_011331.2	Ccl12, MCP-5, MGD-MRK-37263, Sycy12, chemokine (C-C motif) ligand 12, small inducible cytokine A12	chemokine (C-C motif) ligand 12
Ccl2	NM_011333.3	AI323594, Ccl2, HC11, MCAF, MCP-1, MCP1, MGD-MRK-14333, MGD-MRK-14413, MGI:2144120, SMC-CF, Sycy2, Sijgle, chemokine (C-C motif) ligand 2, expressed sequence AI323594, monocyte chemoattractant protein-1, monocyte chemotactic protein, small inducible cytokine A2, small inducible gene IE	chemokine (C-C motif) ligand 2
Ccl3	NM_011337.1	AI323804, CCL3, Ccl3, G0519-1, LD78alpha, MGD-MRK-12241, MGD-MRK-14334, MGI:2144123, MIP-1 alpha, MIP-1alpha, MIP1-(a), MIP1-alpha, Mip1a, Sycy3, chemokine (C-C motif) ligand 3, expressed sequence AI323804, macrophage inflammatory protein-1 alpha, macrophage inflammatory protein-1alpha, small inducible cytokine A3	chemokine (C-C motif) ligand 3
Ccl6	NM_009139.3	Ccl6, MGD-MRK-14337, MIP-1, Sycy6, c10, chemokine (C-C motif) ligand 6, small inducible cytokine A6	chemokine (C-C motif) ligand 6
Ccna1	NM_007628.3	Ccna1, MGD-MRK-37078, cyclin A1	cyclin A1
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
Ccnh	NM_023243.2	6330408H09RIK, AI661354, AV102684, AW538719, Ccnh, MGI:2145279, MGI:2145393, MGI:2145437, RIKEN cDNA 6330408H09 gene, cyclin H, expressed sequence AI661354, expressed sequence AV102684, expressed sequence AW538719	cyclin H
Ccr5	NM_009917.5	CD195, Ccr5, Ccr5r5, MGD-MRK-35643, chemokine (C-C motif) receptor 5, chemokine (C-C) receptor 5	chemokine (C-C motif) receptor 5
Cd109	NM_153098.3	9930012E15RIK, AI480638, CD109 antigen, CD109, Gov platelet alloantigens, MGI:2143078, RIKEN cDNA 9930012E15	CD109 antigen
Cd14	NM_009841.3	gene, expressed sequence AI480638	CD14 antigen
Cd163	NM_053094.2	CD14 antigen, Cd14, MGD-MRK-1831	CD163 antigen
Cd19	NM_009844.2	CD163 antigen, Cd163	CD19 antigen
Cd200	NM_010188.3	AW495831, CD19 antigen, Cd19, MGD-MRK-1833, MGI:2142241, expressed sequence AW495831	CD200 antigen
Cd200r1	NM_021325.3	CD200 antigen, Cd200, MRC OX-2, Mox2, OX2, antigen identified by monoclonal antibody MRC OX-2	CD200 receptor 1
Cd209e	NM_130905.2	CD200 receptor 1, CD200R, Cd200r1, Mox2r, OX2R, antigen identified by monoclonal antibody MRC OX-2 receptor	CD209e antigen
Cd244a	NM_018729.2	CD209e antigen, Cd209e, SIGNR4, mSIGNR4	CD244 molecule A
Cd33	NM_00111058.1	2B4, CD9.1, CD244 molecule, CD244 molecule A, CD244 natural killer cell receptor	CD33 antigen
Cd34	NM_00111059.1	2B4, CD244, CD244a, F730046015RIK, MGD-MRK-38339, MGI:2442562, Nmrk, RIKEN cDNA F730046015 gene, non MHC restricted killing associated	CD34 antigen
Cd3d	NM_013487.2	CD33 antigen, Cd33, MGD-MRK-16204, Siglec-3, gp67	CD34 antigen
Cd3e	NM_007648.4	AU040960, CD34 antigen, Cd34, MGD-MRK-1849, MGI:2138487, expressed sequence AU040960	CD3 antigen, delta polypeptide
Cd3g	NM_009850.2	CD3 antigen, delta polypeptide, Cd3d, MGD-MRK-14696, MGD-MRK-1852, T3-delta chain, T3d	CD3 antigen, epsilon polypeptide
Cd4	NM_013488.2	AIS04783, CD3, CD3 antigen, epsilon polypeptide, CD3epsilon, Cd3e, MGD-MRK-14697, MGD-MRK-1853, MGI:2143086, T3-epsilon chain, T3e, expressed sequence AIS04783	CD3 antigen, gamma polypeptide
Cd40	NM_170702.2	CD3 antigen, gamma polypeptide, Cd3g, Ctg-3, Ctg3, MGD-MRK-14698, MGD-MRK-1854, MGD-MRK-2212, MGD-MRK-2213, T3-gamma chain, T3g	CD40 antigen
Cd47	NM_010581.3	CD4 antigen, Cd4, L3T4, Ly-4, MGD-MRK-11981, MGD-MRK-1858, lymphocyte antigen 4	CD40 antigen
Cd68	NM_001291058.1	AI326936, Bp50, CD40 antigen, Cd40, MGD-MRK-1859, MGI:2138913, Tnfrsf5, expressed sequence AI326936, p50, tumor necrosis factor receptor superfamily, member 5	CD47 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)
Cd74	NM_001042605.1	9130415E20RIK, AA407862, AI848868, AW108519, B430305P08RIK, CD47 antigen (Rh-related antigen, integrin-associated signal transducer), Cd47, IAP, Itgp, 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	CD47 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)
Cd84	NM_001252472.1	AI508519, integrin-associated protein	CD84 antigen
Cd8a	NM_001081110.2	CD6 antigen, Cd6, MGD-MRK-24451	CD8 antigen, alpha chain
Cd8b1	NM_009858.2	CD68 antigen, Cd68, Lamp4, MGD-MRK-1868, Scard1, gp110, macroscalin	CD8 antigen, beta chain 1
Cd9	NM_007657.3	CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated), CLIP, Cd74, Ia-associated invariant chain, Ii, MGD-MRK-11344	CD9 antigen
Cdc23	NM_178347.4	AI30013D23RIK, CD84 antigen, CDw84, CD84, MGI:2444272, RIKEN cDNA AI30013D22 gene, SLAMF5	CDC23 cell division cycle 23
Cdc27	NM_145436.2	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	cell division cycle 27
Cdc42	NM_009861.1	AI747189, AU018915, Cdc42, MGD-MRK-33903, MGI:2140354, MGI:2140443, cell division cycle 42, expressed sequence AI747189, expressed sequence AU018915	cell division cycle 42
Cdc7	NM_009863.2	AI597260, Cdc7, Cdc71, MGI:2140941, cell division cycle 7 (S. cerevisiae), cell division cycle 71 homolog (S. cerevisiae)-like 1, expressed sequence AI597260, muCdc7	cell division cycle 7 (S. cerevisiae)
Cdk5r1	NM_009871.3	Cdk5r1, D11Bwg03796, DNA segment, Chr 11, Brigham & Women's Genetics 0379 expressed, MGD-MRK-18570, MGD-MRK-34066, MGI:108379, cyclin-dependent kinase 5, regulatory subunit 1 (p35), p25, p35	cyclin-dependent kinase 5, regulatory subunit 1 (p35)
Cdk7	NM_001042605.1	AI232415, AI528512, CDC2-related kinase 4, CRK4 PK (CDC2-related kinase-4 protein kinase), Cdk7, Cdk7, Crk4, MGD-MRK-19684, MGD-MRK-2148, MGD-MRK-23792, MGI:2145207, MGI:2145266, MGI:88505, cyclin dependent kinase 7 (homolog of Xenopus MO15 cdk-activating kinase), cyclin-dependent kinase 7, expressed sequence AI232415, expressed sequence AI528512	cyclin-dependent kinase 7
Ceacam3	NM_054059.2	Ceacam3, EG384557, MGI:1891356, Psg24, carcinoembryonic antigen-related cell adhesion molecule 3, cea12, predicted gene, EG384557, pregnancy-specific glycoprotein 24	carcinoembryonic antigen-related cell adhesion molecule 3
Cep68	NM_172260.3	6030463E10RIK, AI481761, BC027174, Cep68, MGC:6990, MGI:2144197, MGI:2674135, RIKEN cDNA 6030463E10, cDNA sequence BC027174, centrosomal protein 68, expressed sequence AI481761	centrosomal protein 68
Cfi	NM_007686.2	CFI, MGD-MRK-33616, complement component factor i	complement component factor i
Chchd3	NM_025336.1	0610041L09RIK, 1700039J09RIK, AW558177, Chchd3, MGI:1920592, MGI:2141712, Micos19, RIKEN cDNA 0610041L09 gene, RIKEN cDNA 1700039J09 gene, coiled-coil-helix-coiled-coil-helix domain containing 3, expressed sequence AW558177	coiled-coil-helix-coiled-coil-helix domain containing 3
Chil1	NM_007695.2	AW208766, Bp39, Chil1, Gp39, MGD-MRK-36073, MGI:107503, MGI:2138570, chitinase 3-like 1, chitinase-like 1, expressed sequence AW208766, glycoprotein 39	chitinase-like 1
Chn1	NM_001113246.2	061000719RIK, 0710001E19RIK, 1700112L09RIK, 2900046J01RIK, AI413815, ARHGAP2, Chn1, MGI:1915574, MGI:1923974, MGI:1925592, MGI:2138925, RIKEN cDNA 061000719 gene, RIKEN cDNA 0710001E19 gene, RIKEN cDNA 1700112L09 gene, RIKEN cDNA 2900046J01 gene, alpha 2 chimaerin, alpha 2 chimaerin, chimerin 1, expressed sequence AI413815	chimerin 1
Chrm2	NM_203491.3	ACHR M2, Chrm-2, Chrm2, M2, MGD-MRK-1975, MGD-MRK-1979, cholinergic receptor, muscarinic 2, cardiac, muscarinic acetylcholine receptor 2	cholinergic receptor, muscarinic 2, cardiac
Chrm3	NM_033269.2	Chrm-3, Chrm3, M3R, MGD-MRK-1976, MGD-MRK-1980, cholinergic receptor, muscarinic 3, cardiac, muscarinic acetylcholine receptor 3	cholinergic receptor, muscarinic 3, cardiac

Chrb2	NM_009602.4	Acrb-2,Acrb2,C030030P04Rik,Chrb2,MGD-MRK-1064,MGD-MRK-1066,MGI:2442758,RIKEN cDNA C030030P04	cholinergic receptor, nicotinic, beta polypeptide 2 (neuronal)
Ckb	NM_021273.4	domain family 7, member 4,Clec7a,Clec7a,Clec7a,beta-GR,beta-glucan receptor,lectin-1	creatine kinase, brain
Cicf1	NM_019952.3	B-cell stimulating factor 3,Bsf3,CLC,ClcF1,NNT-1/Bsf-3,cardiotrophin-like cytokine factor 1	cardiotrophin-like cytokine factor 1
Cldn5	NM_013805.4	A1854493,Cldn5,MGI:1095399,MGI:2146515,Tmvfc,claudin 5,expressed sequence A1854493,transmembrane protein deleted in VCF5	claudin 5
Clec7a	NM_020008.2	BGR,C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 12,C-type lectin domain family 7, member 4,Clec7a,Clec7a,Clec7a,beta-GR,beta-glucan receptor,lectin-1	C-type lectin domain family 7, member 4
Cla	NM_001080385.2	AV026556,Cla,MGI:2140516,clathrin, light polypeptide (Lca),expressed sequence AV026556	clathrin, light polypeptide (Lca)
Cltc	NM_001003908.1	3110065L21Rik,CHC,Clc,MGI:1914550,MGI:2144696,R74732,RIKEN cDNA 3110065L21 gene,clathrin, heavy polypeptide (Hc),expressed sequence R74732	clathrin, heavy polypeptide (Hc)
Cnp	NM_009923.2	2',3'-cyclic nucleotide 3' phosphodiesterase,CNPase,Cnp,Cnp-1,Cnp1,MGD-MRK-2039,MGD-MRK-2041,cyclic nucleotide phosphodiesterase 1	2',3'-cyclic nucleotide 3' phosphodiesterase
Cnr1	NM_007726.3	CB1,CBR1,Cnr1,MGD-MRK-26052,cannabinoid receptor 1 (brain)	cannabinoid receptor 1 (brain)
Cntf	NM_170786.2	A1429687,Cntf,MGD-MRK-2043,MGI:2147531,ciliary neurotrophic factor,expressed sequence A1429687	ciliary neurotrophic factor
Cntnap1	NM_016782.2	A1841080,Caspr,Cntnap1,MGD-MRK-14405,MGI:2144280,MGI:98298,NCP1,Nrxn4,contactin associated protein-like 1,expressed sequence A1841080,neurexin 4 (contactin associated protein),p190,paranodin,shambling,shm	contactin associated protein-like 1
Cntnap2	NM_001004357.2	5430425M22Rik,Caspr2,Cntnap2,RIKEN cDNA 5430425M22 gene,contactin associated protein-like 2,mKIAA0868	contactin associated protein-like 2
Cpa3	NM_007753.2	Cpa3,MC-CPA,MGD-MRK-2103,carboxypeptidase A3, mast cell,mMC-CPA,mast cell carboxypeptidase A	carboxypeptidase A3, mast cell
Cpne2	NM_153507.2	332240K10Rik,Cpne2,MGC-30751,MGC-37787,MGI:1913927,RIKEN cDNA 332240K10 gene,copine II	copine II
Crkl	NM_001277231.1	1110025F07Rik,AA589403,AI325100,Crkl,Crkl,MGD-MRK-27049,MGI:1915874,MGI:2146355,MGI:2146414,MGI:5448844,RIKEN cDNA 1110025F07 gene,expressed sequence AA589403,expressed sequence AI325100,snoop,snoopy,v-crk avian sarcoma virus CT10 oncogene homolog-like,v-crk sarcoma virus CT10 oncogene homolog (avian)-like	v-crk avian sarcoma virus CT10 oncogene homolog-like
Crot	NM_023733.3	1200003H03Rik,Crot,RIKEN cDNA 1200003H03 gene,carnitine O-octanoyltransferase	carnitine O-octanoyltransferase
Csf1	NM_001113530.1	C87615,CSF-1,Csf1,Csfm,M-CSF,MGD-MRK-13034,MGD-MRK-2191,MGI:2140102,MGI:88534,colony stimulating factor 1 (macrophage),colony stimulating factor, macrophage,colony stimulating factor-1,expressed sequence C87615,gs,osteopetrotosis	colony stimulating factor 1 (macrophage)
Csf1r	NM_001037859.2	A1323359,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 AI323359	colony stimulating factor 1 receptor
Csf3r	NM_001252651.1	Cd114,CsF3r,Csf3r,G-CSFR,MGD-MRK-2190,MGI:88533,colony stimulating factor 3 receptor (granulocyte),colony stimulating factor, granulocyte receptor	colony stimulating factor 3 receptor (granulocyte)
Csnk2a1	NM_007788.3	CK2,Csnk2a1,Csnk2a1-rs4,MGD-MRK-2201,MGI:894650,casein kinase 2, alpha 1 polypeptide,casein kinase II, alpha 1 related sequence 4,casein kinase II, alpha 1, related sequence 4	casein kinase 2, alpha 1 polypeptide
Cspg4	NM_139001.2	4732461B14Rik,AN2,Cspg4,MGI:2443606,NG2,RIKEN cDNA 4732461B14 gene,chondroitin sulfate proteoglycan 4	chondroitin sulfate proteoglycan 4
Cst3	NM_009976.3	Cst3,CysC,MGD-MRK-19357,cystatin C	cystatin C
Cst7	NM_009977.3	CMAP,Cst7,Leukocystatin,cystatin F (leukocystatin),cystatin-like metastasis-associated protein	cystatin F (leukocystatin)
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
Ctsb	NM_007798.3	CB,Ctsb,MGD-MRK-2245,cathepsin B	cathepsin B
Ctd	NM_009983.2	CD,CatD,Ctd,MGD-MRK-2246,cathepsin D	cathepsin D
Ctsf	NM_019861.1	A1848132,Ctsf,MGI:247567,cathepsin F,expressed sequence A1848132	cathepsin F
Ctsl	NM_009984.3	1190035F06Rik,Cat L,Ctsl,MGP-MGD-MRK-2248,MGD-MRK-8874,MGI:1338075,MGI:2443888,MGI:95581,RIKEN cDNA 1190035F06 gene,cathepsin L fs, furless,major excreted protein,nack1,nkt	cathepsin L
Ctss	NM_021281.2	Cat S,Ctss,MGD-MRK-35807,cathepsin S	cathepsin S
Ctsw	NM_009985.4	Ctsw,cathepsin W,lymphopain	cathepsin W
Cttnbp2nl	NM_030249.4	AA552995,AA589392,AU018624,BC003236,CTTNBP2 N-terminal like,Cttnbp2nl,MGC-7720,MGI:2139592,MGI:2139595,MGI:2139873,cDNA sequence BC003236,expressed sequence AA552995,expressed sequence AA589392,expressed sequence AU018624,mKIAA1433	CTTNBP2 N-terminal like
Cul1	NM_012042.3	Cul1,cullin 1	cullin 1
Cul2	NM_029402.3	1300003D18Rik,4932411N15Rik,AI327301,Cul2,MGI:1922970,MGI:2147215,RIKEN cDNA 1300003D18 gene,RIKEN cDNA 4932411N15 gene,cullin 2,expressed sequence AI327301	cullin 2
Cux2	NM_007804.2	1700051K22Rik,Cut2,Cux-2,Cux2,ENSMUG00000072641,MGD-MRK-35787,MGI:1920667,MGI:3710627,RIKEN cDNA 1700051K22 gene,cut-like 2 (Drosophila),cut-like homeobox 2,predicted gene, ENSMUG00000072641	cut-like homeobox 2
Cx3cl1	NM_009142.3	AB030188,A1848747,CX3C,Cx3cl1,DB8wg0439e,DNA segment, Chr 8, Brigham & Women's Genetics 0439 expressed,MGD-MRK-35756,MGI:107291,MGI:1930149,MGI:2142630,Cycd1,chemokine (C-X3-C motif) ligand 1,expressed sequence A1848747,fractalkine,hypothetical protein, clone 1-53,neurotactin,small inducible cytokine subfamily D, 1	chemokine (C-X3-C motif) ligand 1
Cx3cr1	NM_009987.4	Cx3c1,chemokine (C-X3-C motif) receptor 1	chemokine (C-X3-C motif) receptor 1
Cxcl15	NM_011339.2	Cxcl15,IL8,Soyb15,chemokine (C-X-C motif) ligand 15,interleukin 8,lungkine,small inducible cytokine subfamily B, member 15,weche	chemokine (C-X-C motif) ligand 15
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
Cyfp2	NM_001252459.1	1500004I01Rik,6430511D02Rik,AA930218,AU022376,Cyfp2,MGI:1923743,MGI:2144048,MGI:2144412,Pir121,RIKEN cDNA 1500004I01 gene,RIKEN cDNA 6430511D02 gene,cytoplasmic FMR1 interacting protein 2,expressed sequence AA930218,expressed sequence AU022376,mKIAA1168	cytoplasmic FMR1 interacting protein 2
Cyp2u1	NM_027816.3	8430436A10Rik,Cyp2u1,RIKEN cDNA 8430436A10 gene,cytochrome P450, family 2, subfamily u, polypeptide 1	cytochrome P450, family 2, subfamily u, polypeptide 1
Cyp4x1	NM_001003947.1	Cyp4a28-ps,Cyp4x1,MGI:2449779,cytochrome P450, family 4, subfamily a, polypeptide 28, pseudogene,cytochrome P450, family 4, subfamily x, polypeptide 1	cytochrome P450, family 4, subfamily x, polypeptide 1
Cys1r1	NM_021476.4	BB147369,Cys1r1,Cys1r1,MGI:2148041,cysteinyl leukotriene 1 receptor,cysteinyl leukotriene receptor 1,expressed sequence BB147369,leukotriene D4 receptor	cysteinyl leukotriene receptor 1
Dagla	NM_198114.2	Dagla,NsdDr,diacylglycerol lipase, alpha,neural stem cell-derived dendrite regulator	diacylglycerol lipase, alpha
Dck1	NM_019978.3	1700113D08Rik,2810480F11Rik,A1836758,CPG16,Click1,DLCK,Dcamk1,Doj,Click1,MGI:1914611,MGI:1920056,MGI:2139800,RIKEN cDNA 1700113D08 gene,RIKEN cDNA 2810480F11 gene,doublecortin and calcium/calmodulin-dependent protein kinase-like 1,doublecortin-like kinase 1,expressed sequence A1836758,mKIAA0369	doublecortin-like kinase 1
Ddah1	NM_026993.3	241000607Rik,2510015N06Rik,A1987801,AW050362,Ddah1,MGI:1917484,MGI:2139846,MGI:2139962,RIKEN cDNA 241000607 gene,RIKEN cDNA 2510015N06 gene,dimethylarginine dimethylaminohydrolase 1,expressed sequence A1987801,expressed sequence AW050362	dimethylarginine dimethylaminohydrolase 1
Diaph1	NM_007858.2	D18Wu154e,DNA segment, Chr 18, Wayne State University 154, expressed,Dia1,Diap1,Drf1,MGD-MRK-35685,MGI:107220,diaphanous homolog 1 (Drosophila),diaphanous related formin 1,mDia1,p140mDia	diaphanous related formin 1
Dlat	NM_145614.4	633240G05Rik,Dlat,MGI:2444090,PDC-E2,RIKEN cDNA 633240G05 gene,dihydropyrimidine 5-acetyltransferase (E2 component of pyruvate dehydrogenase complex)	dihydropyrimidine 5-acetyltransferase (E2 component of pyruvate dehydrogenase complex)
Did	NM_007861.4	A1315664,A1746344,Dld,MGD-MRK-35921,MGI:2144786,MGI:2144881,branched chain alpha-keto acid dehydrogenase complex subunit E3,dihydropyrimidine dehydrogenase,dihydropyrimidyl dehydrogenase,expressed sequence A1315664,expressed sequence A1746344	dihydropyrimidine dehydrogenase
Dlgap1	NM_027712.3	4933422O14Rik,A1845682,A1848168,BB075781,D178wg0511e,DAP-1,beta,DLG associated protein 1,DNA segment, Chr 17, Brigham & Women's Genetics 0511 expressed,Dlgap1,GKAP/SAPAP,Gkap,MGD-MRK-33093,MGI:105421,MGI:1330231,MGI:1918442,MGI:2146933,MGI:2146937,MGI:2147105,RIKEN cDNA 4933422O14 gene,SAPAP1,Sapap1,expressed sequence A1845682,expressed sequence A1848168,expressed sequence BB075781,guanylate kinase associated protein	DLG associated protein 1
Dlx1	NM_010053.2	Dll B,Dlx-1,Dlx1,MGD-MRK-8857,MGD-MRK-8861,distal-less homeobox 1	distal-less homeobox 1
Dlx2	NM_010054.2	AW121999,Dll A,Dlx-2,Dlx2,MGD-MRK-8858,MGD-MRK-8862,MGI:2139313,Tes-1,distal-less homeobox 2,expressed sequence AW121999	distal-less homeobox 2
Dmd	NM_007868.5	Dmd,Dn427,Dn71,Duchenne muscular dystrophy,MGD-MRK-12180,MGD-MRK-13336,MGD-MRK-8869,X-linked muscular dystrophy,dys,trophia, muscular dystrophy,mdx,pike,pyruvate kinase expression	dystrophin, muscular dystrophy
Dnaja2	NM_019794.4	1500017M13Rik,2010206B19Rik,DN13,Dnal heat shock protein family (Hsp40) member A2,Dnaja2,HIRIP4,MGI:1917245,MGI:1923592,PRO3015,RIKEN cDNA 1500017M13 gene,RIKEN cDNA 2010206B19 gene,mDj3	Dnal heat shock protein family (Hsp40) member A2
Dnajb9	NM_013760.4	AA408011,AA673251,AA673481,AW556981,Dnal heat shock protein family (Hsp40) member B9,Dnajb9,Erj4,MGI:2144721,MGI:2144746,MGI:2144747,MGI:2145046,Mgd1,expressed sequence AA408011,expressed sequence AA673251,expressed sequence AA673481,expressed sequence AW556981,mDj7,microvascular endothelial differentiation gene	Dnal heat shock protein family (Hsp40) member B9
Dnajc11	NM_172704.3	Dnal heat shock protein family (Hsp40) member C11,Dnajc11,E030019A03Rik,RIKEN cDNA E030019A03 gene	Dnal heat shock protein family (Hsp40) member C11
Dnajc5	NM_016775.3	2610314I24Rik,AU018536,Csp,Dnal heat shock protein family (Hsp40) member C5,Dnajc5,MGI:1919766,MGI:2139168,RIKEN cDNA 2610314I24 gene,cysteine string protein,expressed sequence AU018536	Dnal heat shock protein family (Hsp40) member C5
Dnm1	NM_010065.2	A1838169,Dnm1,Ftlf1,MGD-MRK-35851,MGI:2139061,MGI:3027061,dynamin 1,expressed sequence A1838169,ftflf1 6330417M19Rik,A1450666,Dnm11,Dnm1p1,Drp1,MGI:1195987,MGI:2146435,RIKEN cDNA 6330417M19 gene,dynamin 1-like,dynamin-like protein 1,expressed sequence A1450666,python	dynamin 1
Dnm1l	NM_001025947.1	9630020E24Rik,AW061159,B23034F03Rik,Dnm3,MGI:2138558,MGI:2444162,RIKEN cDNA 9630020E24 gene,RIKEN cDNA B23034F03 gene,dynamin 3,expressed sequence AW061159,mKIAA0820	dynamin 1-like
Dnm3	NM_001038619.1	Dock3,Meca PBP,dedicator of cyto-kinesis 3	dynamin 3
Dock3	NM_153413.2	C030036C15Rik,D1 receptor,Drd-1,Drd1,Drd1a,G-protein coupled receptor 15,Gpcr15,MGD-MRK-16360,MGD-MRK-16387,MGD-MRK-8892,MGD-MRK-8896,MGI:1924787,RIKEN cDNA C030036C15 gene,dopamine receptor 1,dopamine receptor D1,dopamine receptor D1A	dedicator of cyto-kinesis 3
Drd1	NM_010076.3		dopamine receptor D1

Dusp3	NM_028207.3	2210015003RIK,5031436003RIK,Dusp3,MGI:1923216,RIKEN cDNA 2210015003 gene,RIKEN cDNA 5031436003 gene,T-DSP11,VHR,dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related)	dual specificity phosphatase 3 (vaccinia virus phosphatase VH1-related)
Dync11l1	NM_146229.2	1110053F02RIK,Dncl1,Dync11L,UC-1,MGC:32416,MGI:1916070,RIKEN cDNA 1110053F02 gene,dynein cytoplasmic 1 light intermediate chain 1	dynein cytoplasmic 1 light intermediate chain 1
E2f3	NM_001359994.1	E2F transcription factor 3,E2F3b,E2F3,E2F3a,mkIAA0075	E2F transcription factor 3
Egf	NM_010113.3	A1790464,Egf,MGD-MRK-9315,MGI:2139798,epidermal growth factor,expressed sequence A1790464	epidermal growth factor
Egfr	NM_207655.2	9030024115RIK,A1552599,Egfr,Erbb,Errb1,MGD-MRK-15422,MGD-MRK-15424,MGD-MRK-9322,MGD-MRK-9570,MGI:1890525,MGI:2144221,RIKEN cDNA 9030024115 gene,Was,avian erythroblastic leukemia viral (v-erb-b) oncogene homolog,avian erythroblastosis oncogene B,epidermal growth factor receptor,expressed sequence A1552599.wa-2,wav2,waved 2,waved 5	epidermal growth factor receptor
Egr1	NM_007913.5	A530045N19RIK,ETR103,Egr-1,Egr1,Krox-1,Krox-2,Krox24,Kruppel box 1,Kruppel box 24,MGD-MRK-11608,MGD-MRK-11621,MGD-MRK-15902,MGD-MRK-9324,MGD-MRK-9326,MGI:2444717,NGF1-A,NGFI-A,NGFIA,RIKEN cDNA A530045N19 gene,TISZ,Zenk,Zfp-6,Zif268,early growth response 1,zinc finger protein 6	early growth response 1
Eid1	NM_025613.3	1,Eid1,MGI:1913769,ORF12,RIKEN cDNA 2610002K0RIK,CREBBP/EP300 inhibitory protein 1,Cri1,EID-1,EP300 interacting inhibitor of differentiation	EP300 interacting inhibitor of differentiation 1
Eif2ak1	NM_013557.2	Eif2ak1,Hr1,MGI:1333789,eukaryotic translation initiation factor 2 alpha kinase 1,heme-regulated inhibitor	eukaryotic translation initiation factor 2 alpha kinase 1
Eif2b5	NM_172265.2	C81315,Eif2b5,MGI:2146712,eukaryotic translation initiation factor 2B, subunit 5 epsilon,expressed sequence C81315	eukaryotic translation initiation factor 2B, subunit 5 epsilon
Elmo1	NM_080288.2	6330578D22RIK,A1173001,C230095H21RIK,CED-12,Elmo1,MGI:2145189,MGI:2444821,RIKEN cDNA 6330578D22 gene,RIKEN cDNA C230095H21 gene,engulfment and cell motility 1,expressed sequence A1173001	engulfment and cell motility 1
Eloc	NM_001310470.1	2610301115RIK,AA407206,A1987979,AW049146,Eloc,MGI:2138074,MGI:2138379,MGI:2147693,RIKEN cDNA 2610301115 gene,Teo1,elongin C,expressed sequence AA407206,expressed sequence A1987979,expressed sequence AW049146,transcription elongation factor B (SIII), polypeptide 1	elongin C
Emcn	NM_001163522.1	0610012K22RIK,A1315669,Emcn,MGI:1915613,MGI:2139669,RIKEN cDNA 0610012K22 gene,endomucin,expressed sequence A1315669	endomucin
Emp1	NM_010128.4	Emp1,MGD-MRK-36521,epithelial membrane protein 1	epithelial membrane protein 1
Eno2	NM_013509.2	A1837106,D6E183756,DNA segment, Chr 6, ERATO D01 375, expressed,Eno-2,Eno2,MGD-MRK-9504,MGD-MRK-9507,MGI:1196312,MGI:2141477,NSE,enolase 2,gamma neuronal,expressed sequence A1837106	enolase 2, gamma neuronal
Entpd1	NM_001304721.1	2610206B08RIK,AA08691,CD39 antigen,CD39,Entpd1,MGD-MRK-19713,MGI:1919726,MGI:2147438,ATPDase-1,RIKEN cDNA 2610206B08 gene,ectopyrase,ectonucleoside triphosphate diphosphohydrolase 1,expressed sequence AA408691	ectonucleoside triphosphate diphosphohydrolase 1
Entpd2	NM_009848.2	CD39 antigen-like 1,CD39L1,Entpd2,NTPDase2,ectonucleoside triphosphate diphosphohydrolase 2	ectonucleoside triphosphate diphosphohydrolase 2
Eomes	NM_010136.3	C77258,Eomes,MGI:1131283,MGI:2143384,T-box brain gene 2,Tbr2,eomesoderin,expressed sequence C77258	eomesoderin
Epb41l2	NM_001199265.1	4.1G,AW555191,D10E1rd398e,DNA segment, Chr 10, ERATO D01 398, expressed,Epb4.1l2,Epb4.1l2,MGD-MRK-23846,MGI:1196302,MGI:2143867,NBL3,erythrocyte membrane protein band 4.1 like 2,erythrocyte protein band 4.1 like 2,erythrocyte protein band 4.1-like 2,expressed sequence AW555191	erythrocyte membrane protein band 4.1 like 2
Epb41l3	NM_013813.1	4.1B,DAL1P,Epb4.1l3,Epb4.1l3,MGD-MRK-23845,NBL3,erythrocyte membrane protein band 4.1 like 3,erythrocyte protein band 4.1 like 3,erythrocyte protein band 4.1-like 3	erythrocyte membrane protein band 4.1 like 3
Erbb3	NM_010153.1	C76256,Erbb-3,Erbb3,HER3,HER3,MGD-MRK-9572,MGD-MRK-9574,MGI:1098642,MGI:2143908,avian erythroblastosis oncogene B,avian erythroblastosis oncogene B 3 receptor,erb-b2 receptor tyrosine kinase 3,expressed sequence C76256	erb-b2 receptor tyrosine kinase 3
Erfec1	NM_025745.3	4933407N01RIK,Erfec1,RIKEN cDNA 4933407N01 gene,endoplasmic reticulum lectin 1	endoplasmic reticulum lectin 1
Ernm	NM_029972.4	A330104H05RIK,A1854460,Ernm,MGI:2139104,RIKEN cDNA A330104H05 gene,ermin,ERM-like protein,expressed sequence A1854460	ermin,ERM-like protein
Esam	NM_027102.3	2310008D05RIK,Esam,RIKEN cDNA 2310008D05 gene,W117m,endothelial cell-specific adhesion molecule	endothelial cell-specific adhesion molecule
Etv5	NM_023794.2	1110005E01RIK,8430401F14RIK,Etv-5,MGI:1915818,MGI:1923002,RIKEN cDNA 1110005E01 gene,RIKEN cDNA 8430401F14 gene,ets.ets variant 5	ets variant 5
Extl2	NM_001163514.1	3000001D04RIK,AW146439,Extl2,MGI:1926138,MGI:2139976,RIKEN cDNA 3000001D04 gene,exostosin-like glycosyltransferase 2,expressed sequence AW146439	exostosin-like glycosyltransferase 2
F11r	NM_172647.2	AA638916,BV11 antigen,EST AA638916,ESTM33,F11 receptor,F11r,JAM-1,JAM-A,Jcam1,Ly106,MGI:1334465,expressed sequence tag mouse EST 33,junction cell adhesion molecule,junction cell adhesion molecule1	F11 receptor
Fa2h	NM_178086.3	Fa2h,Faxdc1,G630055L08RIK,RIKEN cDNA G630055L08 gene,fatty acid 2-hydroxylase,fatty acid hydroxylase domain containing 1	fatty acid 2-hydroxylase
Fabp5	NM_010634.3	Fabp5,Fabpe E-FABP,Klbp,MGD-MRK-18598,Unknown Klbp,keratinocyte lipid binding protein,fatty acid binding protein 5, epidermal,keratinocyte lipid binding protein,mal1	fatty acid binding protein 5, epidermal
Fbln5	NM_001361987.1	EVEC,Fbln5, fibulin 5	fibulin 5
Fbxl3	NM_015822.2	AU041772,AW212966,F-box and leucine-rich repeat protein 3,F-box and leucine-rich repeat protein 3a,Fbx3a,Fbxl3,Fbx3a,MGI:2145757,MGI:2145805,MGI:2661838,MGI:3606318,Ovtn,Play68,expressed sequence AU041772,expressed sequence AW212966,overtime,play 68	F-box and leucine-rich repeat protein 3
Fbxw11	NM_134015.2	2310065A07RIK,AAS36858,BTRC2,BTRCP2,F-box and WD-40 domain protein 11,F-box and WD-40 domain protein 1B,Fbxw11,Fbxwb,HD5,MGI:1919630,RIKEN cDNA 2310065A07 gene,expressed sequence AAS36858,mkIAA0096	F-box and WD-40 domain protein 11
Fcgr1	NM_010186.5	9732,MGI:2139673,MGI:2139933,expressed sequence A1323638,expressed sequence AV092959	Fc receptor, IgG, high affinity I
Fcgr4	NM_144559.1	4833442P21RIK,CD16-2,Fc fragment of IgG, low affinity IIIa, receptor,Fc receptor, IgG, low affinity IV	Fc receptor, IgG, low affinity IV
Fcgr1	NM_010189.3	IV,Fc gamma mRIV,Fcgr3a,Fcgr4,MGI:2443436,RIKEN cDNA 4833442P21 gene	Fc receptor, IgG, low affinity IV
Fcrlb	NM_001029984.2	FCR receptor, IgG, alpha chain transporter,FcRn,Fcgr1,MGD-MRK-23854,neonatal Fc receptor	Fc receptor, IgG, alpha chain transporter
Fcrlb	NM_001029984.2	FREB-2,FREB2,Fc receptor related Y,Fc receptor-like B,FcRL2,Fcrlb,Fcry,mFCRL2	Fc receptor-like B
Fcrls	NM_030707.3	2810439C17RIK,Fc receptor-like S, scavenger receptor,Fcrh2,Fcrls,IFGP2,MGI:1920010,Msr2,RIKEN cDNA 2810439C17 gene,macrophage scavenger receptor 2,mFCRH2sc	Fc receptor-like S, scavenger receptor
Fgf13	NM_010200.2	Fgf13,Fh2,MGD-MRK-38222,fibroblast growth factor 13	fibroblast growth factor 13
Fgf2	NM_008006.2	Fgf-2,Fgf2,Fgfb,MGD-MRK-9761,MGD-MRK-9767,MGD-MRK-9774,bFGF, fibroblast growth factor 2, fibroblast growth factor, basic	fibroblast growth factor 2
Fig4	NM_133999.1	A530089117RIK,A1326867,FIG4 phosphoinositide 5-phosphatase,FIG4,RIKEN cDNA A530089117 gene,expressed sequence A1326867	FIG4 phosphoinositide 5-phosphatase
Flt1	NM_010228.3	A1327357,FMS-like tyrosine kinase 1,Flt-1,Flt1,MGD-MRK-9832,MGD-MRK-9836,MGI:2140833,VEGFR-1,VEGFR1,expressed sequence A1327357,Flt1,vascular endothelial growth factor receptor-1	FMS-like tyrosine kinase 1
Fos	NM_010234.2	D12R12,DNA segment, Chr 12, Russel F. Jacoby 1,FBJ osteosarcoma oncogene,Fos,MGD-MRK-19548,MGD-MRK-9866-c fos,cFos	FBJ osteosarcoma oncogene
Foxp3	NM_054039.2	Foxp3,JM2,MGD-MRK-14368,MGI:98281,forkehead box P3,scurfin,scurfy,sf	forkehead box P3
Fpr1	NM_013521.2	FPR,Fpr 1,MGD-MRK-35914,IMLF-R,formyl peptide receptor 1	formyl peptide receptor 1
Fth1	NM_010239.1	AL022624,AL033366,FHC,Fh1,H-ferritin,HFLMFH,MGD-MRK-9882,MGI:2141526,MGI:2147632,expressed sequence AL022624,expressed sequence AL033366,ferritin heavy polypeptide 1	ferritin heavy polypeptide 1
Gabrap1	NM_020590.4	3110025G09RIK,9130422N19RIK,A1196471,Apgr8,Atg8L,EST A1196471,GEC1,Gabrap1,MGI:1889388,MGI:1890601,MGI:1920405,RIKEN cDNA 3110025G09 gene,RIKEN cDNA 9130422N19 gene,gamma-aminobutyric acid (GABA) A receptor-associated protein-like 1	gamma-aminobutyric acid (GABA) A receptor-associated protein-like 1
Gabra1	NM_010250.4	GABAA alpha 1,GABAAR alpha1,Gabra-1,Gabra1,MGD-MRK-9922,MGD-MRK-9927,gamma-aminobutyric acid (GABA) A receptor, subunit alpha 1	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 1
Gabra3	NM_008067.4	Gabra-3,Gabra3,MGD-MRK-9924,MGD-MRK-9929,gamma-aminobutyric acid (GABA) A receptor, subunit alpha 3	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 3
Gabra4	NM_010251.2	Gabra-4,Gabra4,MGD-MRK-9925,MGD-MRK-9930,gamma-aminobutyric acid (GABA) A receptor, subunit alpha 4	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 4
Gabra5	NM_176942.4	A230018I05RIK,Gabra5,MGD-MRK-9931,MGI:2442273,RIKEN cDNA A230018I05 gene,gamma-aminobutyric acid (GABA) A receptor, subunit alpha 5	gamma-aminobutyric acid (GABA) A receptor, subunit alpha 5
Gabr3	NM_008071.3	A230092K12RIK,AW049585,Cp1,Gabbr-3,Gabbr3,MGD-MRK-26107,MGD-MRK-9935,MGD-MRK-9938,MGI:244282,MGI:3034342,RIKEN cDNA A230092K12 gene,beta3,cleft palate 1,expressed sequence AW049585,gamma-aminobutyric acid (GABA) A receptor, subunit beta 3	gamma-aminobutyric acid (GABA) A receptor, subunit beta 3
Gabrd	NM_008072.2	A1853201,Gabrd,MGD-MRK-9939,MGI:2140393,expressed sequence A1853201,gamma-aminobutyric acid (GABA) A receptor, subunit delta	gamma-aminobutyric acid (GABA) A receptor, subunit delta
Gabrg2	NM_177408.5	A1851231,BB128510,GABAA-R,Gabrg-2,Gabrg2,MGD-MRK-9940,MGD-MRK-9942,MGI:2144207,MGI:2144603,expressed sequence BB128510,gamma-aminobutyric acid (GABA) A receptor, subunit gamma 2,gamma2	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 2
Gad1	NM_008077.4	EP10,GAD25,GAD44,GAD67,Gad-1,Gad1,MGD-MRK-9953,MGD-MRK-9957,MGI:2152825,249976,glutamate decarboxylase 1	glutamate decarboxylase 1
Gad2	NM_008078.2	6330404F12RIK,GAD(65),GAD65,Gad-2,Gad2,MGD-MRK-9955,MGD-MRK-9959,MGI:1918008,RIKEN cDNA 6330404F12 gene,glutamic acid decarboxylase 2	glutamic acid decarboxylase 2
Gal3st1	NM_001177691.1	3'-phosphoadenylylsulfate-galactosylceramide 3'-sulfotransferase,Cst,Gal3st1,GalCer sulfotransferase,Gcst,cerobrosidase (3'-phosphoadenylylsulfate-galactosylceramide 3') sulfotransferase,galactose-3-O-sulfotransferase	galactose-3-O-sulfotransferase 1
Galc	NM_008079.3	2310068B06RIK,A930008M05RIK,AW212969,AW413532,Gacy,Galc,MGD-MRK-15304,MGD-MRK-9951,MGD-MRK-9962,MGI:1916901,MGI:1925845,MGI:2145017,MGI:2145024,RIKEN cDNA 2310068B06 gene,RIKEN cDNA A930008M05 gene,expressed sequence AW212969,expressed sequence AW413532,galactocerobrosidase,galactosylceramidase,twi,twitcher	galactosylceramidase
Gas6	NM_019521.2	GAS 6,Gas-6,Gas6,MGD-MRK-9991,MGD-MRK-9997,growth arrest specific 6,growth arrest-specific sequence AW124766,B23034A10RIK,Gas7,Gas7-cb,MGI:2144503,MGI:2443165,RIKEN cDNA B23034A10 gene,expressed sequence AW124766,growth arrest specific 7	growth arrest specific 6
Gas7	NM_001277080.1	Gbp2,MGD-MRK-19679,guanylate binding protein 2	guanylate binding protein 2
Gbp2	NM_010260.1	A1385739,Gdnf,MGD-MRK-35901,MGI:2145987,expressed sequence A1385739,glial cell line derived neurotrophic factor,glial cell line-derived neurotrophic factor	glial cell line derived neurotrophic factor
Gdnf	NM_010275.2	9130017L10RIK,GDE3,Gdnpd2,RIKEN cDNA 9130017L10 gene,glycerophosphodiester phosphodiesterase domain containing 2	glycerophosphodiester phosphodiesterase domain containing 2
Gdnpd2	NM_023608.3	A1836096,Gfap,MGD-MRK-10055,MGI:2144272,expressed sequence A1836096,glial fibrillary acidic protein	glial fibrillary acidic protein

Ggta1	NM_010283.4	AW108479,GALT,Gal,Ggta,Ggta-1,Ggta1,MGD-MRK-10064,MGD-MRK-10065,MGD-MRK-10066,MGI:2139304,alpha Gal, alpha1-3-galactosyltransferase, alpha3GalT, expressed sequence AW108479, glycoprotein alpha galactosidase, glycoprotein alpha galactosyl transferase 1, glycoprotein galactosyltransferase alpha 1, 3	glycoprotein galactosyltransferase alpha 1, 3	
Gjb1	NM_008124.2	A118175,Cx32,cjb-1,Gjb1,MGD-MRK-10091,MGD-MRK-10096,MGI:2147847,connexin 32,connexin-32,expressed sequence A118175, gap junction protein, beta 1	gap junction protein, beta 1	
Gjd2	NM_010290.2	Cx36,Gja9,Gjd2,connexin36, gap junction protein, alpha 9, gap junction protein, delta 2	gap junction protein, delta 2	
Gla	NM_013463.2	Ags,Gla,MGD-MRK-1191,MGI:87962,alpha-galactosidase,galactosidase, alpha	galactosidase, alpha	
Gira3	NM_080438.2	Gira3,MGD-MRK-10132, glycine receptor, alpha 3 subunit	glycine receptor, alpha 3 subunit	
Girb	NM_010298.5	A1853901,Girb,MGD-MRK-10134,MGD-MRK-14513,MGI:2139832, expressed sequence A1853901, glycine receptor, beta subunit, spa, spasic	glycine receptor, beta subunit	
Gls	NM_001113383.1	A1214027,B230365M23Rik,Gls,MGD-MRK-10135,MGI:2138193,MGI:2444416,RIKEN cDNA B230365M23	glutaminase	
Glu1	NM_008131.3	GS,Glns,Glu1,MGD-MRK-10117, glutamate-ammonia ligase (glutamine synthetase), glutamine synthetase	glutamate-ammonia ligase (glutamine synthetase)	
Gmpr2	NM_177992.2	1810008P16Rik,5730544D12Rik,AA959850,Gmpr2,MGI:1931631,MGI:2145585,RIKEN cDNA 1810008P16 gene,RIKEN cDNA 5730544D12 gene, expressed sequence AA959850, guanosine monophosphate reductase 2	guanosine monophosphate reductase 2	
Gnai1	NM_010305.1	AU046200,G1alpha1,Gnai-1,Gnai1,MGD-MRK-10180,MGD-MRK-10183,MGI:2141096, expressed sequence AU046200, guanine nucleotide binding protein (G protein), alpha inhibiting 1	guanine nucleotide binding protein (G protein), alpha inhibiting 1	
Gnas	NM_010309.3	5530400H20Rik,A930027G11Rik,C130027O20Rik,G,alpha s,GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus,Galphas,Gnas,Gnas1,Gnasx,Gs alpha,Gs protein, alpha chain (stim. reg. adenylate cyclase),Gs-alpha,Gsa,MGD-MRK-10189,MGD-MRK-10282,MGI:1336163,MGI:1336215,MGI:1918608,MGI:1925540,MGI:1931436,MGI:2183280,MGI:2442318,Nesp,Nesp5 5,Nesp,Oedsml,P1,P3,RIKEN cDNA 5530400H20 gene,RIKEN cDNA A930027G11 gene,RIKEN cDNA C130027O20 gene,SCG5,Xlalphas,guanine nucleotide binding protein, alpha stimulating, extra large, neuroendocrine secretory protein, neuroendocrine secretory protein-like, neuroendocrine-specific Golgi protein p55 isoform 1, oedematous-small	GNAS (guanine nucleotide binding protein, alpha stimulating) complex locus	Sub-maximal transcript coverage due to non-overlapping transcripts
Gnb1	NM_008142.3	AA409223,C77571,Gnb-1,Gnb1,MGD-MRK-10195,MGD-MRK-10200,MGI:2140144,MGI:2140659, expressed sequence AA409223, expressed sequence C77571, guanine nucleotide binding protein (G protein), beta 1	guanine nucleotide binding protein (G protein), beta 1	
Gng2	NM_010315.4	1110003P13Rik,Gng2,MGD-MRK-19609,MGI:1923542,RIKEN cDNA 1110003P13 gene,guanine nucleotide binding protein (G protein), gamma 2	guanine nucleotide binding protein (G protein), gamma 2	
Gng3	NM_010316.3	83,Gng3,MGD-MRK-19608,guanine nucleotide binding protein (G protein), gamma 3	guanine nucleotide binding protein (G protein), gamma 3	
Got1	NM_010324.1	A1789014,Got-1,Got1,MGD-MRK-10213,MGD-MRK-10215,MGI:2147593,caspAT,cytosolic aspartate aminotransferase, expressed sequence A1789014, glutamic-oxaloacetic transaminase 1, soluble	glutamic-oxaloacetic transaminase 1, soluble	
Gphn	NM_145965.2	5730552E08Rik,A1662856,BC027112,Gphn,MGC:38765,MGD-MRK-39601,MGI:1917919,MGI:2144880,MGI:2384824,RIKEN cDNA 5730552E08 gene,cDNA sequence BC027112, expressed sequence A1662856,geph,gephyrin	gephyrin	
Gpm6a	NM_001253754.1	Gpm6,Gpm6a,M6A,MGD-MRK-33055,MGD-MRK-36246, glycoprotein M6, glycoprotein m6a	glycoprotein m6a	
Gpnmb	NM_053110.4	DC-HIL,Dchil,Gpnmb,MGI:1336203,MGI:1933809,Osteoactivin,dendritic cell associated heparan sulfate proteoglycans dependent integrin ligand, glycoprotein (transmembrane) nmb,ipid,iris pigment dispersion	glycoprotein (transmembrane) nmb	
Gpr17	NM_01025381.2	A1853548,G protein-coupled receptor 17,Gpr17,MGI:2147281, expressed sequence A1853548	G protein-coupled receptor 17	
Gpr34	NM_011823.4	G protein-coupled receptor 34,Gpr34	G protein-coupled receptor 34	
Gpr84	NM_030720.1	EX33,G protein-coupled receptor 84,Gpr84	G protein-coupled receptor 84	
Gprasp1	NM_001004359.2	2210415K24Rik,3110031O14Rik,C87852,G protein-coupled receptor associated sorting protein 1,GASP1,Gprasp1,MGI:1914548,MGI:2148081,RIKEN cDNA 2210415K24 gene,RIKEN cDNA 3110031O14 gene, expressed sequence C87852,mkA40443	G protein-coupled receptor associated sorting protein 1	
Grb2	NM_008163.4	AA408164,Grb2,MGD-MRK-10242,MGI:2143976, expressed sequence AA408164, growth factor receptor bound protein 2	growth factor receptor bound protein 2	
Gria1	NM_001252403.1	2900051M01Rik,A1853806,Gir-1,Glu1,GluA1,GluR-A,GluR1,GluRA,GluR-1,GluR1,Gria1,HIPAP1,MGD-MRK-10128,MGD-MRK-10129,MGD-MRK-10140,MGD-MRK-10147,MGD-MRK-10246,MGI:1920245,MGI:2144316,MGI:95746,RIKEN cDNA 2900051M01 gene, expressed sequence A1853806, glutamate receptor 1, glutamate receptor 1 (alpha 1), glutamate receptor, ionotropic, AMPA1 (alpha 1)	glutamate receptor, ionotropic, AMPA1 (alpha 1)	
Gria2	NM_001039195.1	GluA2,GluR-B,GluR2,GluR-2,GluR2,Gria2,MGD-MRK-10141,MGD-MRK-10148,MGD-MRK-10247, glutamate receptor 2 (alpha 2), glutamate receptor, ionotropic, AMPA2 (alpha 2)	glutamate receptor, ionotropic, AMPA2 (alpha 2)	
Gria3	NM_016886.3	290006419Rik,GluR3,GluR-3,GluR3,Gluralpha3,Gria3,MGD-MRK-10142,MGD-MRK-10149,MGD-MRK-10248,MGI:1920286,RIKEN cDNA 290006419 gene, glutamate receptor 3, glutamate receptor, ionotropic, AMPA3 (alpha 3)	glutamate receptor, ionotropic, AMPA3 (alpha 3)	
Gria4	NM_001113180.1	GluR-4,GluR4,Gluralpha4,Gria4,MGD-MRK-10143,MGD-MRK-10150,MGD-MRK-10249,MGI:3580137, glutamate receptor 4, glutamate receptor, ionotropic, AMPA4 (alpha 4), spike wave 1, spkw1	glutamate receptor, ionotropic, AMPA4 (alpha 4)	
Grik2	NM_010349.2	AW124492,C130030K03Rik,GluR-6,GluR6,Glurbeta2,Grik2,MGD-MRK-10145,MGD-MRK-10152,MGD-MRK-10253,MGI:2143816,MGI:2444432,RIKEN cDNA C130030K03 gene, expressed sequence AW124492, glutamate receptor 6 (beta 2), glutamate receptor, ionotropic, kainate 2 (beta 2)	glutamate receptor, ionotropic, kainate 2 (beta 2)	
Grin2a	NM_008170.2	GluN2A,GluRepsilon1,Grin2a,MGD-MRK-10258,NMDAR2A,NR2A,glutamate receptor, ionotropic, NMDA2A (epsilon 1)	glutamate receptor, ionotropic, NMDA2A (epsilon 1)	
Grin3a	NM_001033351.1	A830097C19Rik,Grin3a,MGI:3036253,NMDAR-L,NR3A,RIKEN cDNA A830097C19 gene, glutamate receptor ionotropic, NMDA3A	glutamate receptor ionotropic, NMDA3A	
Grk3	NM_177078.4	483344401Rik,A1851927,AWS51196,Adrbk-2,Adrbk2,Bar-2,G protein-coupled receptor kinase 3,Grk3,MGD-MRK-1150,MGD-MRK-1152,MGD-MRK-1497,MGI:2140993,MGI:2141228,MGI:2443434,RIKEN cDNA 4833444A01 gene, adrenergic receptor kinase, beta 2, beta ARK2, beta-adrenergic receptor kinase 2, expressed sequence A1851927, expressed sequence AWS51196	G protein-coupled receptor kinase 3	
Grm1	NM_001114333.2	4930455H15Rik,G protein coupled receptor, family C, group 1, member A,G protein-coupled receptor, family C, group 1, member A,Gprc1a,Grm1,MGD-MRK-10264,MGI:1922125,MGI:2652657,MGI:3584411,MGI:3588965,MGI:95825,RIKEN cDNA 4930455H15 gene, glutamate receptor, metabotropic 1,mGluR1, neuroscience mutagenesis facility, 373,nmf373,rcw, recoil wobbler, wobbles,wobl	glutamate receptor, metabotropic 1	
Grm2	NM_001160353.1	4930441L02Rik,G protein coupled receptor, family C, group 1, member B,Gprc1b,Grm2,MGD-MRK-10265,MGI:1921233,MGI:95826,RIKEN cDNA 4930441L02 gene, glutamate receptor, metabotropic 2,mGluR2	glutamate receptor, metabotropic 2	
Grm7	NM_177328.3	6330570A01Rik,BB176677,E130018M02Rik,G protein-coupled receptor, family C, group 1, member G,Gpr7g,Grm7,MGD-MRK-10270,MGI:2141737,MGI:2442018,MGI:2676918,MGI:95831,RIKEN cDNA 6330570A01 gene,RIKEN cDNA E130018M02 gene,SMN2,tg(SMN2)89Ahmb, expressed sequence BB176677, glutamate receptor, metabotropic 7,mGluR7	glutamate receptor, metabotropic 7	
Gsn	NM_008175.4	Gsn,MGD-MRK-10272,PC cell-derived growth factor, pgrn, acrogranulin, epithelin, granulin, progranulin	granulin	
Gsk3b	NM_019827.3	7330414F15Rik,8420431H08Rik,C86142, GSK-3, GSK-3beta,GSK3,Gsk3b,MGI:1914056,MGI:1925394,MGI:2146721,RIKEN cDNA 7330414F15 gene,RIKEN cDNA 8420431H08 gene, expressed sequence C86142, glycogen synthase kinase 3 beta	glycogen synthase kinase 3 beta	
Gsn	NM_146120.3	Gsn,MGD-MRK-10302,gelsolin	gelsolin	
Gzma	NM_010370.2	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	
Gzmb	NM_013542.2	A1553453,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 A1553453, granzyme B	granzyme B	
H2-D1	NM_010380.3	H-2D,H2-D1,MGD-MRK-10379,MGD-MRK-10492,histocompatibility 2, D region locus 1	histocompatibility 2, D region locus 1	
H2-T23	NM_010398.3	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	
Hacd2	NM_023587.2	3-hydroxyacyl-CoA dehydratase 2,6330408I20Rik,AI255777,AI481689,Hacd2,MGI:2145964,MGI:2146447,Ptplb,RIKEN cDNA 6330408I20 gene, expressed sequence AI255777, expressed sequence AI481689, protein tyrosine phosphatase-like (proline instead of catalytic arginine), member b	3-hydroxyacyl-CoA dehydratase 2	
Hacd3	NM_021345.2	3-hydroxyacyl-CoA dehydratase 3,AW742319,B-Ind1,Hacd3,Hscp121,MGC:25483,MGI:2143343,Ptplad1, expressed sequence AW742319, protein tyrosine phosphatase-like A domain containing 1	3-hydroxyacyl-CoA dehydratase 3	
Hadh	NM_008212.3	AA09008,AU019341,AW742602,Hadh,Hadhscl,3-hydroxyacyl-Coenzyme A dehydrogenase, short chain,MGD-MRK-10609,MGI:2139565,MGI:2139879,MGI-2140013,Schad, expressed sequence AA09008, expressed sequence AU019341, expressed sequence AW742602, hydroxyacyl-Coenzyme A dehydrogenase, hydroxyacyl-Coenzyme A dehydrogenase, hydroxyacyl-Coenzyme A dehydrogenase	hydroxyacyl-Coenzyme A dehydrogenase	
Hcn1	NM_010408.3	Bcng1,C630013B14Rik,HAC2,Hcn1,MGI:2442891,RIKEN cDNA C630013B14 gene, brain cyclic nucleotide gated 1, hyperpolarization activated cyclic nucleotide gated potassium channel 1, hyperpolarization-activated, cyclic nucleotide-gated K+ 1	hyperpolarization activated cyclic nucleotide gated potassium channel 1	
Hdac2	NM_008229.2	D10Wsu179e,DNA segment, Chr 10, Wayne State University 179, expressed,Hdac2,MGD-MRK-36452,MGI:107875,Y1 transcription factor binding protein,Yy1bp,histone deacetylase 2	histone deacetylase 2	
Hdc	NM_008230.4	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	
Hectd1	NM_144788.2	A630086P08Rik,A1844876,HECT domain E3 ubiquitin protein ligase 1,Hectd1,MGI:C12070,MGI:1276115,MGI:2144896,MGI:2443495,MGI:5313701,Mutant line 327,RIKEN cDNA A630086P08 gene,h2b327Clc, expressed sequence A1844876, open mind, opm	HECT domain E3 ubiquitin protein ligase 1	
Hexb	NM_010422.2	Hexb,MGD-MRK-10698,hexosaminidase B	hexosaminidase B	
Hk1	NM_001146100.1	BB404130,Hk-1,Hk1,Hk1-s,MGD-MRK-10735,MGD-MRK-10736,MGI:1891296,MGI:3035452,dea,downeast anemia, expressed sequence BB404130, hexokinase 1,mHk1-s	hexokinase 1	

Hmgb1	NM_010439.4	DEF,HMG-1,Hmg1,Hmgb1,MGD-MRK-10748,SBP-1,amphoterin,high mobility group box 1,high mobility group protein 1,p30	high mobility group box 1
Hmxo1	NM_010442.2	D8Wsu38e,DNA segment, Chr 8, Wayne State University 38, expressed,HO-1,HMOX,HMOX1,HSP32,MGD-MRK-10800,MGD-MRK-34114,MGD-MRK-38247,MGI:106420,MGI:109203,heme oxygenase 1,hemoxygenase	heme oxygenase 1
Hpgds	NM_019455.4	H-PGDS,Hpgds,Ptgsd2,hematopoietic prostaglandin D synthase,prostaglandin D2 synthase 2, hematopoietic,prostaglandin D2 synthase, hematopoietic	hematopoietic prostaglandin D synthase
Hsd11b1	NM_008288.2	11beta-HSD-1,11beta-hydroxysteroid dehydrogenase type 1,Hsd11b1,MGD-MRK-24447,hydroxysteroid 11-beta dehydrogenase 1	hydroxysteroid 11-beta dehydrogenase 1
Hsd17b4	NM_008292.4	17[b]-HSD,AW208803,D-bifunctional protein,Hsd17b4,MFE-2,MFP2,MGD-MRK-32129,MGI:2147354,Mfp-2,expressed sequence AW208803,hydroxysteroid (17-beta) dehydrogenase 4,multifunctional protein 2,perMFE-2	hydroxysteroid (17-beta) dehydrogenase 4
Hsp90ab1	NM_008302.3	AL022974,C81438,Hsp84,Hsp84-1,Hsp90,Hsp90ab1,Hspcb,MGD-MRK-10963,MGD-MRK-10974,MGI:2146951,MGI:2147140,expressed sequence AL022974,expressed sequence C81438,heat shock protein 1,beta,heat shock protein 90 alpha (cytosolic), class B member 1,heat shock protein, 84 kDa 1,heat shock protein, 90 kDa	heat shock protein 90 alpha (cytosolic), class B member 1
Hspa1a/b	NM_010479.2	C3H-specific antigen,CSA,GRP75,Hsc74,Hsp74,Hsp74a,Hspa9,Hspa9a,MGD-MRK-10961,MGI:1345461,PBP74,heat shock protein 9,heat shock protein 9A,heat shock protein cognate 74,heat shock protein, 74 kDa,mortalin,mot-2,mthsp70	heat shock protein 9
Htr5a	NM_008314.2	5-hydroxytryptamine (serotonin) receptor 5,5-hydroxytryptamine (serotonin) receptor 5A,Htr5a,MGD-MRK-11010,MGD-MRK-11011	5-hydroxytryptamine (serotonin) receptor 5A
Icam2	NM_010494.1	CD102,Icam-2,Icam2,MGD-MRK-11147,MGD-MRK-11150,intercellular adhesion molecule 2	intercellular adhesion molecule 2
Ifit1	NM_008331.2	IGS56,Ifi56,Ifit1,MGD-MRK-16219,interferon inducible protein 56,interferon-induced protein with tetratricopeptide repeats 1	interferon-induced protein with tetratricopeptide repeats 1
Ifit3	NM_010501.2	Ifi49,Ifi3,interferon inducible protein 49,interferon-induced protein with tetratricopeptide repeats 3	interferon-induced protein with tetratricopeptide repeats 3
Ifnar1	NM_010508.1	IFN-alpha/betaR,Ifnar,Ifnar1,Ifnr,MGD-MRK-11223,MGD-MRK-36233,interferon (alpha and beta) receptor	interferon (alpha and beta) receptor 1
Ifngr2	NM_008338.3	Ifgr2,Ifgr,Ifngr2,MGD-MRK-11216,MGD-MRK-25614,MGD-MRK-36229,interferon gamma receptor 2,interferon gamma transducer	interferon gamma receptor 2
Igf1	NM_00111274.1	C730016P09Rik,Igf-1,Igf-1,Igf1,MGD-MRK-11226,MGD-MRK-11228,MGI:2444166,RIKEN cDNA C730016P09 gene,insulin-like growth factor 1	insulin-like growth factor 1
Igfbp5	NM_010518.2	AI256729,AW208790,IGFBP-5,IGFBP-SP,Igfbp5,MGD-MRK-11237,MGI:2138187,MGI:2138571,expressed sequence AI256729,expressed sequence AW208790,insulin-like growth factor binding protein 5	insulin-like growth factor binding protein 5
Igtp	NM_018738.4	AW558444,Igtp,Irgm3,MGD-MRK-36305,MGI:2144580,expressed sequence AW558444,interferon gamma induced GTPase	interferon gamma induced GTPase
Ilgp1	NM_021792.5	2900074L10Rik,AI046432,AW11922,Ilgp1,Irga6,MGI:1920292,MGI:2147195,MGI:2147350,RIKEN cDNA 2900074L10 gene,expressed sequence AI046432,expressed sequence AW11922,interferon inducible GTPase 1	interferon inducible GTPase 1
Il10	NM_010548.2	IL-10,IL-10,IL10,MGD-MRK-11347,MGD-MRK-11361,cytokine synthesis inhibitor factor,interleukin 10	interleukin 10
Il10ra	NM_001324486.1	AW553859,CdW210,Il10r,Il10ra,MGD-MRK-11362,MGI:2143329,expressed sequence AW553859,interleukin 10 receptor,interleukin 10 receptor, alpha,mIL-10R	interleukin 10 receptor, alpha
Il18	NM_008360.1	Igf1,IL-18,IL18,MGD-MRK-36516,interferon gamma inducing factor,interleukin 18	interleukin 18
Il1a	NM_010554.4	IL-1a,Il1a,MGD-MRK-11351,MGD-MRK-11366,interleukin 1 alpha	interleukin 1 alpha
Il1b	NM_008361.3	IL-1b,IL-1beta,IL-1b,Il1b,MGD-MRK-11352,MGD-MRK-11367,interleukin 1 beta	interleukin 1 beta
Il21r	NM_021887.1	IL21-ILK,interleukin 21 receptor	interleukin 21 receptor
Il34	NM_001135100.1	2010004A03Rik,AI593503,I34,MGI:2142587,RIKEN cDNA 2010004A03 gene,expressed sequence AI593503,interleukin 34	interleukin 34
Il4	NM_021283.1	IL-4,Il4,MGD-MRK-11355,MGD-MRK-11385,interleukin 4	interleukin 4
Il6	NM_031168.1	IL-6,Il6,MGD-MRK-11357,MGD-MRK-11391,interleukin 6	interleukin 6
Immt	NM_029673.2	1700082C19Rik,D830041H16Rik,HMP,Immt,MGI:2441994,Micos60,P87,P87,P89,RIKEN cDNA 1700082C19 gene,RIKEN cDNA D830041H16 gene,inner membrane protein, mitochondrial,mitofilin	inner membrane protein, mitochondrial
Ina	NM_146100.4	AV028420,Ina,MGC:25352,MGD-MRK-11403,MGI:2147669,NF-66,NF66,expressed sequence AV028420,interneixin neuronal intermediate filament protein, alpha	interneixin neuronal intermediate filament protein, alpha
Inpp5f	NM_178641.5	5830435P03Rik,AI115354,AW561896,Inpp5f,MGI:1930728,RIKEN cDNA 5830435P03 gene,SAC2,cDNA sequence, clone 3-26,cd-27,expressed sequence AI115354,inositol polyphosphate-5-phosphatase F,mKIAA0966	inositol polyphosphate-5-phosphatase F
Ip6k2	NM_029634.2	1500005N04Rik,AW050208,Ipk2,Ip6k2,MGI:2143285,RIKEN cDNA 1500005N04 gene,expressed sequence AW050208,inositol hexaphosphate kinase 2	inositol hexaphosphate kinase 2
Irf8	NM_008320.4	AI893568,ICSBP,IRF-8,Icsbp1,Irf8,MGD-MRK-11151,MGI:2142648,MGI:3574547,MyIs,expressed sequence AI893568,interferon consensus sequence binding protein 1,interferon regulatory factor 8,myeloproliferative syndrome	interferon regulatory factor 8
Islr2	NM_001161538.1	B930052A04Rik,Islr2,Linx,RIKEN cDNA B930052A04 gene,immunoglobulin superfamily containing leucine-rich repeat 2,mKIAA1465,mbu-3	immunoglobulin superfamily containing leucine-rich repeat 2
Iiga7	NM_008398.2	Iiga7,MGD-MRK-19604,[a]7,alpa7,integrin alpha 7	integrin alpha 7
Itgax	NM_001082960.1	CD11B (p170),CD11b,CD18,CR3,Cd11b,F730045J24Rik,Igcam,Ly-40,MGD-MRK-11486,MGD-MRK-11982,MGD-MRK-12094,MGI:2444489,Mac-1,Mac-1 alpha,Mac-1a,RIKEN cDNA F730045J24 gene,complement component receptor 3 alpha,complement receptor type 3,integrin alpha M,lymphocyte antigen 40,macrophage antigen alpha chain (integrin)	integrin alpha M
Itgax	NM_021334.2	AI449405,CD11C (p150) alpha polypeptide,Cd11c,Igax,MGD-MRK-11488,MGI:2141963,expressed sequence AI449405,integrin alpha X	integrin alpha X
Itm2a	NM_008409.2	AW108051,Bridc2a,Itm2,Itm2a,MGD-MRK-36282,MGI:2147997,expressed sequence AW108051,integral membrane protein 2,integral membrane protein 2A	integral membrane protein 2A
Itp1	NM_010585.2	D6Pas2,DNA segment, Chr 6, Pasteur Institute 2,IP3R1,InsP3R type I,Ip3r,Itp1,Itp1r,MGD-MRK-11506,MGD-MRK-11508,MGD-MRK-13043,MGD-MRK-13182,MGD-MRK-13185,MGD-MRK-16179,MGD-MRK-7700,MGI:4437431,MGI:93795,MGI:97507,P400,Pcp-1,Pcp1,Purkinje cell protein 1,inositol 1,4,5-triphosphate binding protein,inositol 1,4,5-triphosphate receptor 1,opisthotonus,opt,wblbo,wobbly locomotion	inositol 1,4,5-triphosphate receptor 1
Jak1	NM_146145.2	AA960307,BAP004,C130039L05Rik,Jak1,Janus kinase 1,MGD-MRK-11516,MGI:2140180,MGI:2443062,MGI:5425487,RIKEN cDNA C130039L05 gene,bone alkaline phosphatase mutant 004,expressed sequence AA960307	Janus kinase 1
Jak2	NM_008413.2	AIS04024,C81284,Jak2,Janus kinase 2,MGD-MRK-11517,MGI:2147569,MGI:2147795,expressed sequence AIS04024,expressed sequence C81284	Janus kinase 2
Jun	NM_010591.2	Jun,Jun-C oncogene,Jun,MGD-MRK-11538,MGD-MRK-11540,c-jun,jun proto-oncogene	jun proto-oncogene
Kcnab1	NM_001289450.1	Alk8a8,Kcnab1,Kvbeta1.1,MGD-MRK-38199,mkv(beta)1,potassium voltage-gated channel, shaker-related subfamily, beta member 1	potassium voltage-gated channel, shaker-related subfamily, beta member 1
Kcnd1	NM_008423.1	1110037K09Rik,K<+> channel, A current, subtype 2, gene 1 [Drosophila Shak homolog],Kca2-1,Kcnd1,Kv4.1,MGD-MRK-11557,MGD-MRK-11575,MGD-MRK-14398,MGI:1915999,RIKEN cDNA 1110037K09 gene,Shal,mShal1,potassium voltage-gated channel, Shal-related family, member 1	potassium voltage-gated channel, Shal-related family, member 1
Kcnd2	NM_019697.3	AI839615,AW555701,Kcnd2,Kv4.2,MGD-MRK-19563,MGI:2141480,MGI:2141704,MGI:2141795,R75121,expressed sequence AI839615,expressed sequence AW555701,expressed sequence R75121,mKIAA1044,potassium voltage-gated channel, Shal-related family, member 2	potassium voltage-gated channel, Shal-related family, member 2
Kcnk13	NM_001164426.1	BB085247,F730021E22Rik,Gm1570,Gm1685,Kcnk13,LOC380778,LOC381712,MGI:2145065,MGI:2686416,MGI:2686531,RIKEN cDNA F730021E22 gene,expressed sequence BB085247, gene model 1570, (NCBI), gene model 1685, (NCBI),potassium channel, subfamily K, member 13	potassium channel, subfamily K, member 13
Kcnq3	NM_152923.2	Kcnq3,potassium voltage-gated channel, subfamily Q, member 3	potassium voltage-gated channel, subfamily Q, member 3
Kcnq5	XM_006495500.1	9230107005Rik,AA589396,D1Mg11,DNA segment, Chr 1, Mouse Genome Informatics 1,Kcnq5,MGI:2138116,RIKEN cDNA 9230107005 gene,expressed sequence AA589396,potassium voltage-gated channel, subfamily Q, member 5	potassium voltage-gated channel, subfamily Q, member 5
Kcnv1	NM_026200.3	2700023A03Rik,Kcnv1,MGI:3584402,RIKEN cDNA 2700023A03 gene,potassium channel, subfamily V, member 1,vibe,vibes	potassium channel, subfamily V, member 1
Kctd12	NM_177715.4	AU046135,AW538430,Kctd12,MGI:2145763,Pft11,Pftin,expressed sequence AU046135,expressed sequence AW538430,potassium channel tetramerisation domain containing 12	potassium channel tetramerisation domain containing 12
Khsrp	NM_010613.3	6330409F21Rik,KH-type splicing regulatory protein,KSRP,Khsrp,MGI:1917993,RIKEN cDNA 6330409F21 gene	KH-type splicing regulatory protein
Kir3dl1/2	NM_177749.4	Clo,Con,Gh,Kitl,Mgd,MGD-MRK-10006,MGD-MRK-12219,MGD-MRK-14435,MGD-MRK-2018,MGD-MRK-2093,MGI:5304521,Mgf,SCF,Sf,Sf,Steel,Steel factor,blaze,biz,cloud gray,contrasted,grizzle-belly,kit ligand,mast cell growth factor,steel,stem cell factor	kit ligand
Kitl	NM_013598.1	C3ip1,Kihl12,MGC:7076,kelech-like 12,kelech-like protein C3IP1	kelech-like 12
Klk6	NM_001164696.1	AI849898,Bssp,Klk29,Klk6,MGI:1347349,MGI:2142052,Prss18,Prss9,expressed sequence AI849898,kallikrein 29,kallikrein related-peptidase 6,neurosin,protease M,protease, serine, 18,protease, serine, 9	kallikrein related-peptidase 6
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
Klr1d	NM_010654.2	CD94,Klr1d,killer cell lectin-like receptor, subfamily D, member 1	killer cell lectin-like receptor, subfamily D, member 1
Klrk1	NM_001083322.1	D6H1252489E,DNA Segment, Chr 6, human D1252489E,Klrk1,NKG2-D,Nkg2d,killer cell lectin-like receptor subfamily K, member 1	killer cell lectin-like receptor subfamily K, member 1
Kpna1	NM_008465.5	AW494490,Kpna1,MGD-MRK-24445,MGI:2146643,NP1,RAG (recombination activating gene) cohort 2,Rch2,expressed sequence AW494490,importin alpha 5,karyopherin (importin) alpha 1,m-importin-alpha-S1,mSRP1	karyopherin (importin) alpha 1
Kras	NM_021284.6	AI929937,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:2141518,expressed sequence AI929937	Kirsten rat sarcoma viral oncogene homolog
Lag3	NM_008479.1	CD223,Lag-3,Lag3,Iy66,MGD-MRK-35044,lymphocyte antigen 66,lymphocyte-activation gene 3	lymphocyte-activation gene 3

Lair1	NM_001113474.1	5133400011RIK, BB115266, D78wg0421e, DNA segment, Chr 7, Brigham & Women's Genetics 0421 expressed, Lair-1, Lair1, MGD-MRK-33164, MGI:1918474, MGI:2142289, RIKEN cDNA 513340001.1 gene, expressed sequence	leukocyte-associated Ig-like receptor 1
Lamp1	NM_010684.2	BB115266, leukocyte-associated Ig-like receptor 1, mLair-1 A1196048, CD107a, Lamp-1, Lamp1, MGD-MRK-11740, MGD-MRK-11742, MGI:2142479, Perk, expressed sequence A1196048, lysosomal-associated membrane protein 1	lysosomal-associated membrane protein 1
Lamp2	NM_001017959.1	CD107b, Lamp-2a, Lamp-2b, Lamp-2c, Lamp2, MGD-MRK-11741, MGD-MRK-11745, Mac3, lysosomal-associated membrane protein 2	lysosomal-associated membrane protein 2
Lamtor3	NM_019920.2	AW556229, Lamtor3, MAPK scaffold protein 1, MEK binding partner 1, MGI:2140008, Map2k1p1, Mapksp1, Mp1, expressed sequence AW556229, late endosomal/lysosomal adaptor, MAPK and MTOR activator 3, mitogen-activated protein kinase kinase 1 interacting protein 1	late endosomal/lysosomal adaptor, MAPK and MTOR activator 3
Lgals3	NM_001145953.1	1-34, Lgals3, MGD-MRK-11777, Mac-2, ga3, galactin-3, lectin, galactose binding, soluble 3	lectin, galactose binding, soluble 3
Lgmn	NM_011175.3	AEP, A1746452, AU022324, Lgmn, MGI:214882, MGI:2144957, Prsc1, expressed sequence A1746452, expressed sequence AU022324, legumain, propeptidomain, protease, cysteine, 1	legumain
Lilrb4a	NM_013532.3	CD85k, Gp49b, HM18, ILT3, Lilrb4, Lilrb4a, MGD-MRK-19605, glycoprotein 49 B, Leukocyte immunoglobulin-like receptor, subfamily B, member 4, Leukocyte immunoglobulin-like receptor, subfamily B, member 4A	leukocyte immunoglobulin-like receptor, subfamily B, member 4A
Lpar6	NM_175116.4	261030202RIK, Lpar6, P2ry5, P2y5, RIKEN cDNA 261030202 gene, lysophosphatidic acid receptor 6, purinergic receptor (family A group 5), purinergic receptor P2Y, G-protein coupled, 5	lysophosphatidic acid receptor 6
Lpl	NM_008509.2	Lpl, MGD-MRK-11871, O-1-4-5, lipoprotein lipase	lipoprotein lipase
Lrrc25	NM_153074.3	Lrrc25, Mapa, leucine rich repeat containing 25, monocyte and plasmacytoid activated molecule	leucine rich repeat containing 25
Lrrc7	XM_993731.1	AK122498, Lrrc7, cDNA sequence AK122498, desin, leucine rich repeat containing 7, mKIAA1365	leucine rich repeat containing 7
Lsr	NM_001164184.1	ILDR3, Lisch7, Lr, lipolysis stimulated lipoprotein receptor, liver-specific bHLH-Zip transcription factor	lipolysis stimulated lipoprotein receptor
Lta4h	NM_008517.2	LTA4 hydrolase, Lta4h, MGD-MRK-11898, leukotriene A4 hydrolase	leukotriene A4 hydrolase
Ltc4s	NM_008521.1	Ltc4s, MGD-MRK-36066, leukotriene C4 synthase	leukotriene C4 synthase
Ly2	NM_017372.3	A1326280, Lys, Lysm, Ly2, Lys, Ltm, Lzm, s1, Lzp, M lysozyme structural 1, MGD-MRK-12083, MGD-MRK-12085, MGI:2143581, MGI:96899, expressed sequence A1326280, lysozyme, lysozyme 2	lysozyme 2
Mad2l1	NM_019499.5	AA672185, MAD2, MAD2 mitotic arrest deficient-like 1, MGI:2144039, Mad2l1, expressed sequence AA673185 Kreisel, Kreisel (maf-related) leucine zipper protein, Krm1, Krm1, MGD-MRK-11595, MGD-MRK-25987, Mafb, kr, kreisel, v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	MAD2 mitotic arrest deficient-like 1
Mafb	NM_010658.3	maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)	v-maf musculoaponeurotic fibrosarcoma oncogene family, protein B (avian)
Mag	NM_010758.2	Gma, MGD-MRK-10172, MGD-MRK-12105, Mag, myelin-associated glycoprotein, siglec-4a	myelin-associated glycoprotein
Mal2	NM_178920.2	A1461653, Mal2, expressed sequence A1461653, mal, T cell differentiation protein 2	mal, T cell differentiation protein 2
Map1lc3b	NM_026160.4	1010001C15Rik, Atg8, LC3b, Map1lc3, Map1lc3b, RIKEN cDNA 1010001C15 gene, microtubule-associated protein 1 light chain 3 beta	microtubule-associated protein 1 light chain 3 beta
Map2	NM_008632.2	G1-397-34, MAP-2, MGD-MRK-12580, MGD-MRK-12585, MGI:3512774, Map2, Map2, microtubule-associated protein 2, repro4, reproductive mutant 4, JAX Reproductive Mutagenesis Program	microtubule-associated protein 2
Map2k1	NM_008927.4	MAP kinase kinase 1, MGD-MRK-19441, MGD-MRK-19443, MGI:102562, Map2k1, Mek1, Prkkm1, mitogen-activated protein kinase kinase 1, protein kinase, mitogen activated, kinase 1, p45	mitogen-activated protein kinase kinase 1
Map2k4	NM_009157.4	JNK1, MGD-MRK-35660, MGI:107199, MKK4, Map2k4, SAPK/Erk/kinase 1, Sek1, Serk1, mitogen-activated protein kinase kinase 4	mitogen-activated protein kinase kinase 4
Map3k4	NM_011948.2	D17Rp17, D17Rp17e, DNA segment, Chr 17, Roswell Park 17, DNA segment, Chr 17, Roswell Park-17, expressed, MAPKKK4, MEK kinase 4, MGD-MRK-14016, MGD-MRK-14718, MGD-MRK-39591, MGD-MRK-4772, MGD-MRK-4773, MGI:109592, MGI:90953, MGI:98486, MTK1, Map3k4, Mek4, RP17, Roswell Park 17, DNA polymorphism, T-associated sex reversal, Tas, mKIAA0213, mitogen-activated protein kinase kinase kinase 4	mitogen-activated protein kinase kinase 4
Mapk1	NM_011949.3	9030612K14Rik, AA407128, AU018647, C78273, Erk2, MAPK2, MGD-MRK-33596, MGD-MRK-9584, MGI:105919, MGI:1921796, MGI:2146330, MGI:2146551, MGI:2146700, Mapk4, Prkm1, RIKEN cDNA 9030612K14 gene, erk related tyrosine kinase 2, expressed sequence AA407128, expressed sequence AU018647, expressed sequence C78273, mitogen-activated protein kinase 1, p42mapk, protein kinase, mitogen activated kinase 1	mitogen-activated protein kinase 1
Mapk10	NM_001081567.1	C230008H04Rik, JNK3, MGD-MRK-36125, MGI:107554, MGI:2442453, Mapk10, RIKEN cDNA C230008H04 gene, SAPK/Erk/kinase 2, Serk2, mitogen-activated protein kinase 10, p493f12	mitogen-activated protein kinase 10
Mapk13	NM_011950.1	MGI:1195258, Mapk13, SAPK/Erk/kinase 4, SAPK4, Serk4, mitogen-activated protein kinase 13, p38 delta MAP kinase CDC-2-related kinase 1, CSBP2, Crk1, Csbp1, MGD-MRK-2145, MGI:1338028, MGI:88502, Mapk14, Mxi2, cytokine suppressive anti-inflammatory drug binding protein 1, mitogen-activated protein kinase 14, p38, p38 MAP Kinase, p38 MAP kinase alpha, p38 MAPK, p38 alpha, p38-alpha, p38MAPK, p38a, p38alpha	mitogen-activated protein kinase 13
Mapk14	NM_011951.3	A1849689, JNK1, MGI:1328367, MGI:2145699, Mapk8, Prkm8, c-Jun N-terminal kinase, expressed sequence A1849689, mitogen-activated protein kinase 8, protein kinase mitogen-activated 8	mitogen-activated protein kinase 14
Mapk8	NM_016700.3	A1851083, JNK/SAPK alpha, JNK, MGI:1202396, MGI:2144306, Mapk9, Prkm9, c-Jun N-terminal kinase, expressed sequence A1851083, mitogen-activated protein kinase 9, protein kinase, mitogen-activated 9	mitogen-activated protein kinase 8
Mapk9	NM_207692.1	A1413597, AW045860, MGD-MRK-12590, MGD-MRK-14720, MGI:2144146, MGI:2144478, Mapt, Mapt, Tau, expressed sequence A1413597, expressed sequence AW045860, microtubule-associated protein tau	mitogen-activated protein kinase 9
Mapt	NM_001038609.2	C76307, Hmbrp, MGD-MRK-10746, MGD-MRK-12126, MGD-MRK-12253, MGD-MRK-14404, MGI:2147393, MGI:2147422, MGI:3708158, Mbp, R75289, expressed sequence C76307, expressed sequence R75289, goll-i-mbp, hemopoietic myelin basic protein related, jive, jive, mld, myelin basic protein, myelin deficient, shi, shiverer	microtubule-associated protein tau
Mbp	NM_010777.3	0610038M03Rik, AV003995, MGI:1915622, MGI:2142730, Mbtps1, RIKEN cDNA 0610038M03 gene, S1P, SKI-1, expressed sequence AV003995, membrane-bound transcription factor peptidase, site 1, Site1, protease, subtilisin/kexin isozyme-1	myelin basic protein
Mbtps1	NM_019709.3	2310005N01Rik, 2810036M01Rik, MGI:1919914, MYST1, associated factor 6, Meaf6, RIKEN cDNA 2310005N01 gene, RIKEN cDNA 2810036M01 gene	membrane-bound transcription factor peptidase, site 1
Meaf6	NM_027310.3	MYST/Esal-associated factor 6	MYST/Esal-associated factor 6
Mef2a	NM_001033713.1	A430079H05Rik, MGD-MRK-16310, MGI:2445167, Mef2a, RIKEN cDNA A430079H05 gene, myocyte enhancer factor 2A Eyk, MER proto-oncogene tyrosine kinase, MGD-MRK-12199, MGI:2651818, Mer, Mertk, Nyk, Tyro 12, c-mer proto-oncogene, neuroscience mutagenesis facility, 12, nmf12	myocyte enhancer factor 2A
Mertk	NM_008587.1	D630048A14Rik, Ki-67, K67, MGD-MRK-33719, MGI:2444351, Mki67, RIKEN cDNA D630048A14 gene, antigen identified by monoclonal antibody Ki 67	MER proto-oncogene tyrosine kinase
Mki67	NM_001081117.2	Mkrn1, makorin, ring finger protein, 1	antigen identified by monoclonal antibody Ki 67
Mkrn1	NM_018810.2	D230010K02Rik, MGD-MRK-12719, MGI:2441954, Mmut, Mut, RIKEN cDNA D230010K02 gene, methylmalonyl-Coenzyme A mutase	makorin, ring finger protein, 1
Mmut	NM_008650.3	B230317G11Rik, MGD-MRK-13032, MGI:2443229, Mog, RIKEN cDNA B230317G11 gene, myelin oligodendrocyte glycoprotein	methylmalonyl-Coenzyme A mutase
Mog	NM_010814.2	AA90661, CD20 antigen, Cd20, Ly-44, MGD-MRK-11986, MGD-MRK-1838, MGI:2147465, Ms4a1, expressed sequence AA90661, lymphocyte antigen 44, membrane-spanning 4-domains, subfamily A, member 1	myelin oligodendrocyte glycoprotein
Ms4a1	NM_007641.5	Fc epsilon high affinity receptor beta, Fc receptor, IgE, high affinity I, beta polypeptide, FcRb, Fce1b, Fcer1b, FcRbeta, MGD-MRK-9725, MGD-MRK-9729, Ms4a2, membrane-spanning 4-domains, subfamily A, member 2	membrane-spanning 4-domains, subfamily A, member 1
Ms4a2	NM_001276330.1	EG666907, Ms4a4a, membrane-spanning 4-domains, subfamily A, member 4A, predicted gene, EG666907	membrane-spanning 4-domains, subfamily A, member 2
Ms4a4a	XM_003086124.1	MGD-MRK-14331, MRS-A, MSR-A, Msr1, SR-AI, SR-AII, ScarA1, Scvr, macrophage scavenger receptor 1, scavenger receptor	membrane-spanning 4-domains, subfamily A, member 4A
Msr1	NM_001113326.1	AA596759, EST AA596759, ESTM44, FYVE zinc finger phosphatase, FYVE-DSP2, MGI:1334430, Mtmr4, ZFYVE11, expressed sequence tag mouse EST 44, mKIAA0647, myotubularin related protein 4	macrophage scavenger receptor 1
Mtmr4	NM_001357901.1	2610315D21Rik, A1327068, FK506 binding protein 12-rapamycin associated protein 1, FKBP-rapamycin-associated protein FRAP, Frap1, MGI:1332655, MGI:1919780, MGI:2140250, Mtor, RAFT1, RAPT1, RIKEN cDNA 2610315D21 gene, expressed sequence A1327068, flat, flat-top, mechanistic target of rapamycin (serine/threonine kinase), mechanistic target of rapamycin kinase	myotubularin related protein 4
Mtor	NM_020009.2	A1893580, MGD-MRK-12725, MGD-MRK-12726, MGD-MRK-12728, MGI:2146518, MX dynamin-like GTPase 1, Mx, Mx-1, Mx1, expressed sequence A1893580, myxovirus (influenza) resistance 1 polypeptide	mechanistic target of rapamycin kinase
Mx1	NM_010846.1	11100020B0Rik, A1225941, A1642973, MGI:2143542, MGI:2143656, MT-MC1, Mtmr1, Myct1, RIKEN cDNA 1110020B04 gene, expressed sequence A1225941, expressed sequence A1642973, myc target 1	MX dynamin-like GTPase 1
Myct1	NM_026793.2	963000719Rik, A1413174, A1661011, Dbv, MGD-MRK-14365, MGD-MRK-2338, MGD-MRK-28030, MGD-MRK-33656, MGD-MRK-8805, MGI:1096356, MGI:1343057, MGI:2143030, MGI:2143108, MvA, Myo5, Myo5a, MyoVa, RIKEN cDNA 963000719 gene, d, dilute, expressed sequence A1413174, expressed sequence A1661011, flail, flailin, flr, myosin V, myosin Va, nmf244	myc target 1
Myo5a	NM_010864.2	AA408153, A1644131, A1604836, Gm762, MGI:2140126, MGI:2140342, MGI:2685608, Myorg, NET37, expressed sequence AA408153, expressed sequence A1644131, expressed sequence A1604836, gene model 762, (NCBI), myogenesis regulating glycosidase (putative)	myosin VA
Myorg	NM_001085515.2	Gm1804, Gm98, LOC225908, LOC386531, MGI:2686650, Myrf, gene model 1804, (NCBI), gene model 98, (NCBI), myelin regulatory factor, predicted gene 98	myogenesis regulating glycosidase (putative)
Myrf	NM_001033481.1	Bpx, MGD-MRK-32160, MGD-MRK-35112, Nap12, brain protein, X-linked, nucleosome assembly protein 1-like 2	myelin regulatory factor
Nap12	NM_008671.1	CD56, E-NCAM, MGD-MRK-12786, NCAM, NCAM-1, NCAM-120, NCAM-140, NCAM-180, Ncam1, neural cell adhesion molecule 1	nucleosome assembly protein 1-like 2
Ncam1	NM_001113204.1	MGD-MRK-12787, MGD-MRK-12788, MGI:1095738, Ncam-2, Ncam2, Ocam, R4B12 antigen, RNCAM, neural cell adhesion molecule 2, olfactory axon cell adhesion molecule	neural cell adhesion molecule 1
Ncam2	NM_010954.4	MGD-MRK-12789, MGD-MRK-12792, NADPH oxidase subunit (47kDa), NOX2, Ncf-1, Ncf1, neutrophil cytosolic factor 1, neutrophil cytosolic factor 1, p47-phox, p47phox	neural cell adhesion molecule 2
Ncf1	NM_001286037.1	C79304, H19, Hem-2, Hem2, MGI:2139487, NCK-associated protein 1, Nap1, Nckap1, expressed sequence C79304, mh19	neutrophil cytosolic factor 1
Nckap1	NM_016965.2	Ly94, MAR1 (mouse activating receptor 1), Nkp4, Ncr1, lymphocyte antigen 94, natural cytotoxicity triggering receptor 1	NCK-associated protein 1
Ncr1	NM_010746.3	2900053E13Rik, NADH:ubiquinone oxidoreductase subunit A10, Ndufa10, RIKEN cDNA 2900053E13 gene	natural cytotoxicity triggering receptor 1
Ndufa10	NM_024197.1		NADH:ubiquinone oxidoreductase subunit A10



Ndufb5	NM_025316.2	0610007D05RIK,AU015782,MGI:2139864,NADH:ubiquinone oxidoreductase subunit B5,Ndufb5,RIKEN cDNA	NADH:ubiquinone oxidoreductase subunit B5
Nefh	NM_010900.3	0610007D05 gene,expressed sequence AU015782 MGD-MRK-12826,NEFH,NF-H,NF200,Nefh,Nf,mKIAA0845,neurofilament, heavy polypeptide	neurofilament, heavy polypeptide
Nefl	NM_010910.1	A1847934,CMT2E,MGD-MRK-12831,MGI:2145696,NF-L,NF68,Nefl,Nf,expressed sequence A1847934,neurofilament, light polypeptide	neurofilament, light polypeptide
Nes	NM_016701.3	AA166324,C78523,EST AA166324,ESTM46,faprc2,MGD-MRK-18592,MGI:1334428,MGI:1345191,MGI:1929610,MGI:2140057,Marc2,Nes,RC2,antigen identified by monoclonal antibody RC2,expressed sequence C78523,expressed sequence tag mouse EST 46,intermediate filament-associated protein RC2,nestin	nestin
Nf1	NM_010897.2	AW494271,Ds49,MGD-MRK-12821,MGD-MRK-12822,MGI:2144546,MGI:2450693,Martin Hrabe de Angelis dark skin 9,Mhdad49,Nf-1,Nf1,dark skin 9,expressed sequence AW494271,neurofibromin1,neurofibromin,neurofibromin 1	neurofibromin 1
Ngf	NM_001112698.1	MGD-MRK-12840,Ngf,Nfgb,nerve growth factor,nerve growth factor, beta	nerve growth factor
Ninj2	NM_016718.2	Ninj2,ninjurin 2	ninjurin 2
Nkg7	NM_024254.4	2500004F03RIK,MGI:1919560,Nkg7,RIKEN cDNA 2500004F03 gene,natural killer cell group 7 sequence	natural killer cell group 7 sequence
Nkiras1	NM_023526.3	2400004O09RIK,KBRAS1,NFKB inhibitor interacting Ras-like protein 1,Nkiras1,RIKEN cDNA 2400004O09 gene	NFKB inhibitor interacting Ras-like protein 1
Nlk	NM_008702.3	A1194375,MGI:2144078,Nlk,expressed sequence A1194375,nemo like kinase	nemo like kinase
Nlrp1b	NM_001162414.1	ENSMUSG00000070390,MGI:3641853,MGI:3712674,NLR family, pyrin domain containing 1B,Nalp1b,Nlrp1b,OTTMUSG0000006087,OTTMUSG0000006089,predicted gene, ENSMUSG00000070390,predicted gene, OTTMUSG0000006087,predicted gene, OTTMUSG0000006089	NLR family, pyrin domain containing 1B
Nlrp3	NM_145827.3	Cla1,Mmig1,NALP3,NLR family, pyrin domain containing 3,Nlrp3,Pyppaf1,cold autoinflammatory syndrome 1 homolog (human),cryopyrin	NLR family, pyrin domain containing 3
Nmnat2	NM_175460.3	A1843915,D03004109RIK,MGI:2138339,Nmnat2,PNAT1,RIKEN cDNA D03004109 gene,expressed sequence	nicotinamide nucleotide adenylyltransferase 2
Nos1ap	NM_001109985.1	A1843915,mKIAA0479,nicotinamide nucleotide adenylyltransferase 2 G330408P19RIK,Nos1ap,RIKEN cDNA G330408P19 gene,nitric oxide synthase 1 (neuronal) adaptor protein	nitric oxide synthase 1 (neuronal) adaptor protein
Nos2	NM_010927.3	MGD-MRK-12910,MGD-MRK-12913,NOS-1,Nos-2,Nos2,Nos2a,NOS, nitric oxide synthase 2, inducible,nitric oxide synthase-2 (brain)	nitric oxide synthase 2, inducible
Nos3	NM_181547.3	Dai2,Nos3in,mDai2,nitric oxide synthase trafficker	nitric oxide synthase 2 trafficker
Npas2	NM_008719.2	MGD-MRK-38276,MOP4,Npas2,bHLHe9,neuronal PAS domain protein 2	neuronal PAS domain protein 2
Nptn	NM_009145.2	AW554172,MGD-MRK-37114,MGI:2143330,Nptn,Sdfr1,expressed sequence AW554172,neuroplastin,stromal cell derived factor receptor 1	neuroplastin
Nrcam	NM_001146031.1	Bravo,C030017F07RIK,C130076007RIK,MGD-MRK-28041,MGI:1924717,MGI:2442157,Nrcam,RIKEN cDNA C030017F07 gene,RIKEN cDNA C130076007 gene,mKIAA0343,neuronal cell adhesion molecule	neuronal cell adhesion molecule
Nrg1	NM_178591.2	6030402Z3RIK,ARIA,D230005F13RIK,GGF,GGFII,HGL,HRG,HRG,Galpa,Hgl,MGD-MRK-10710,MGI:1345182,MGI:2444307,MGI:2444355,NDF,Nrg1,RIKEN cDNA 6030402Z3 gene,RIKEN cDNA D230005F13 gene,SDF,heregulin,neuregulin 1	neuregulin 1
Nrxn1	NM_001346960.1	1700062G21RIK,9330127H16RIK,A230068P09RIK,MGI:1915292,MGI:2442437,MGI:2444963,Nrxn1,RIKEN cDNA 1700062G21 gene,RIKEN cDNA 9330127H16 gene,RIKEN cDNA A230068P09 gene,alpha-latrotoxin receptor (calcium-dependent),mKIAA0578,neurexin I,neurexin I alpha,neurexin I beta	neurexin I
Nsf	NM_008740.2	A1316878,AU020090,AU067812,MGD-MRK-25994,MGI:2144115,MGI:2144400,MGI:2144446,N-ethylmaleimide sensitive factor,N-ethylmaleimide sensitive fusion protein,Nsf,SKD2,expressed sequence A1316878,expressed sequence AU020090,expressed sequence AU067812	N-ethylmaleimide sensitive fusion protein
Nuak1	NM_001004363.2	AU014801,AW494241,B230104P22RIK,MGI:2143718,MGI:2143843,NUAK family, SNF1-like kinase 1,Nuak1,RIKEN cDNA B230104P22 gene,expressed sequence AU014801,expressed sequence AW494241	NUAK family, SNF1-like kinase 1
Nwd1	NM_176940.5	A230063I24RIK,NACHT and WD repeat domain containing 1,Nwd1,RIKEN cDNA A230063I24 gene	NACHT and WD repeat domain containing 1
Olfm3	NM_153157.3	B230206O2RIK,MGI:2443850,Olfm3,RIKEN cDNA B230206O2 gene,olfactomedin 3, optineurin	olfactomedin 3
Olfml3	NM_133859.2	2810002E22RIK,A1115209,AW505633,HNOEL-iso,MGI:2139624,MGI:2140002,ONT3,Olfml3,RIKEN cDNA 2810002E22 gene,expressed sequence A1115209,expressed sequence AW505633,mONT3,olfactomedin-like 3	olfactomedin-like 3
Olfrl10	NM_146328.2	GA_x6K027PSCP-1956307-1957760,MOR249-2,Oflr110,olfactory receptor 110	olfactory receptor 110
Olig1	NM_016968.4	A1836478,AW494459,Bhhb16,MGI:2146489,MGI:2146642,Olig-1,Olig1,bHLHe21,expressed sequence	oligodendrocyte transcription factor 1
Olig2	NM_016967.2	A1836478,expressed sequence AW494459,oligodendrocyte transcription factor 1 A1604895,Bhhb1,MGI:2146463,Olig-2,Olig2,RK17,bHLHe19,expressed sequence A1604895,oligodendrocyte transcription factor 2	oligodendrocyte transcription factor 2
Opa1	NM_001199177.1	1200011N24RIK,A1225888,A1847218,MGI:2146390,MGI:2146496,MGI:3578172,OPA1, mitochondrial dynamin like GTPase,Opa1,RIKEN cDNA 1200011N24 gene,expressed sequence A1225888,expressed sequence A1847218,IIIR3,IIIR3,optic atrophy 1	OPA1, mitochondrial dynamin like GTPase
Opcml	NM_177906.4	290007501RIK,A1844366,B930023M13RIK,Gm181,LOC235104,MGC-99974,MGD-MRK-12968,MGI:1920295,MGI:2143136,MGI:2443164,MGI:2685027,Obcam,Opclm,RIKEN cDNA 290007501 gene,RIKEN cDNA B930023M13 gene,expressed sequence A1844366, gene model 181, (NCBI),opioid binding cell adhesion molecule,opioid binding protein/cell adhesion molecule-like	opioid binding protein/cell adhesion molecule-like
Orc3	NM_001159563.1	Orc3,Orc3,origin of replication 3 homolog (S. cerevisiae),origin recognition complex, subunit 3,origin recognition complex, subunit 3-like (S. cerevisiae)	origin recognition complex, subunit 3
Orc4	NM_001355296.1	Orc4,Orc4P,Orc4,mMORC4,origin recognition complex, subunit 4,origin recognition complex, subunit 4-like (S. cerevisiae)	origin recognition complex, subunit 4
Orc5	NM_011959.2	AL033327,MGI:2141023,MmORC5,Orc5,Orc5,expressed sequence AL033327,mouse origin recognition complex 5,origin recognition complex, subunit 5,origin recognition complex, subunit 5 homolog (S. cerevisiae),origin recognition complex, subunit 5-like (S. cerevisiae)	origin recognition complex, subunit 5
P2rx7	NM_01038839.2	A1467586,MGI:2140909,P2X7,P2X7 receptor,P2X7R,P2rx7,expressed sequence A1467586,purinergic receptor P2X, ligand-gated ion channel, 7	purinergic receptor P2X, ligand-gated ion channel, 7
P2ry1	NM_008772.4	MGD-MRK-32088,P2ry1,P2Y1 receptor,P2ry1, Purinergic receptor P2Y, G-protein coupled 1	purinergic receptor P2Y, G-protein coupled 1
P2ry12	NM_027517.3	2900079B22RIK,4921504D23RIK,MGI:1920308,P2ry12,P2ry12,RIKEN cDNA 2900079B22 gene,RIKEN cDNA 4921504D23 gene, Purinergic receptor P2Y, G-protein coupled 12	purinergic receptor P2Y, G-protein coupled 12
P2ry13	NM_028808.3	2010001L06RIK,G protein-coupled receptor 86,Gpr86,P2ry13,P2ry13,RIKEN cDNA 2010001L06 gene,SP174, Purinergic receptor P2Y, G-protein coupled 13	purinergic receptor P2Y, G-protein coupled 13
P2ry14	NM_001008497.2	A330108O13RIK,G protein-coupled receptor 105,G protein-coupled receptor 106,Gpr105,MGI:2441794,P2ry14,P2ry14,RIKEN cDNA A330108O13 gene, Purinergic receptor P2Y, G-protein coupled, 14	purinergic receptor P2Y, G-protein coupled, 14
P2ry6	NM_183168.2	2010204J23RIK,MGI:1913795,P2ry6,P2ry6,RIKEN cDNA 2010204J23 gene,pyrimidindergic receptor P2Y, G-protein coupled, 6	pyrimidindergic receptor P2Y, G-protein coupled, 6
Pak1	NM_011035.2	AW045634,MGI:1203486,MGI:2142185,PAK-1,Pak1,Paka,activated protein kinase alpha,expressed sequence	p21 (RAC1) activated kinase 1
Panx1	NM_019482.2	AW045634,p21 (RAC1) activated kinase 1 A1847747,MGI:2143143,Panx1,expressed sequence A1847747,pannexin 1	pannexin 1
Parp2	NM_009632.2	ADP-ribosyltransferase (NAD <sup>+</sup> poly(ADP-ribose) polymerase)-like 2,ADP-ribosyltransferase (NAD <sup>+</sup> 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
Pcca	NM_144844.2	C79630,MGD-MRK-13172,MGI:2145863,Pcca,expressed sequence C79630,propionyl-Coenzyme A carboxylase, alpha polypeptide	propionyl-Coenzyme A carboxylase, alpha polypeptide
Pccb	NM_025835.2	1300012P06RIK,A1314687,MGI:2143011,MGI:2143446,Pccb,R74805,RIKEN cDNA 1300012P06 gene,expressed sequence A1314687,expressed sequence R74805,propionyl Coenzyme A carboxylase, beta polypeptide	propionyl Coenzyme A carboxylase, beta polypeptide
Pde1a	NM_001159582.1	A1987702,AW125737,MGI:2139118,MGI:2139319,Pde1a,expressed sequence A1987702,expressed sequence AW125737,phosphodiesterase 1A, calmodulin-dependent	phosphodiesterase 1A, calmodulin-dependent
Pdgfra	NM_011058.2	A115593,CD140a,MGD-MRK-13215,MGD-MRK-13216,MGI:2140805,Pdgfr-2,Pdgfra,expressed sequence	platelet derived growth factor receptor, alpha polypeptide
Pdha1	NM_008810.3	MGD-MRK-13218,MGD-MRK-13219,Pdha-1,Pdha1,pyruvate dehydrogenase E1 alpha 1,pyruvate dehydrogenase E1alpha subunit	pyruvate dehydrogenase E1 alpha 1
Pdhb	NM_024221.3	2610103I06RIK,AL024199,C81408,MGI:2145717,MGI:2145868,Pdhb,RIKEN cDNA 2610103I06 gene,expressed sequence AL024199,expressed sequence C81408,pyruvate dehydrogenase (liponamide) beta	pyruvate dehydrogenase (liponamide) beta
Pdpk1	NM_001080773.2	3-phosphoinositide dependent protein kinase 1,Pdk1,Pdk1k1,Pkb kinase	3-phosphoinositide dependent protein kinase 1
Pecam1	NM_008816.2	C85791,CD31 antigen,CD31,MGD-MRK-13226,MGD-MRK-1848,MGI:2144682,PECAM-1,Pecam1,expressed sequence C85791,platelet/endothelial cell adhesion molecule 1	platelet/endothelial cell adhesion molecule 1
Pgam1	NM_023418.2	2310050F24RIK,MGD-MRK-13253,MGD-MRK-13254,MGI:1915256,Pgam-1,Pgam1,RIKEN cDNA 2310050F24 gene,phosphoglycerate mutase 1	phosphoglycerate mutase 1
Pgk1	NM_008828.2	MGD-MRK-13258,MGD-MRK-13266,Pgk-1,Pgk1,phosphoglycerate kinase 1	phosphoglycerate kinase 1
Phyh	NM_010726.2	A1256161,A1265699,Lnap1,MGI:2138869,MGI:2138872,Phyh,expressed sequence A1256161,expressed sequence A1265699,lupus nephritis-associated peptide 1,phytanoyl-CoA hydroxylase	phytanoyl-CoA hydroxylase
Pias1	NM_019663.3	2900068C24RIK,DEAD/H (Asp-Glu-Ala-Asp/His) box binding protein 1,Ddxpb1,GBP,MGI:1920216,Pias1,RIKEN cDNA 2900068C24 gene,protein inhibitor of activated STAT 1	protein inhibitor of activated STAT 1
Pik3cb	NM_020904.3	1110001J02RIK,A1447572,MGI:2143049,Pik3cb,RIKEN cDNA 1110001J02 gene,expressed sequence A1447572,p110beta,phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
Pik3r1	NM_001024955.2	AA414921,MGD-MRK-13305,MGI:2145159,Pik3r1,expressed sequence	phosphoinositide-3-kinase regulatory subunit 1
Pkd2	NM_008861.3	AA414921,p50alpha,p55alpha,p85alpha,phosphoinositide-3-kinase regulatory subunit 1 C030034P18RIK,MGI:1924630,PC2,Pkd2,RIKEN cDNA C030034P18 gene,TRPP2,polycystin 2, transient receptor potential cation channel,polycystin-2	polycystin 2, transient receptor potential cation channel
Plaa	NM_172695.2	A1536418,AU018845,AW208417,DdE1-t618e,DNA segment, Chr 4, ERATO Doi 618, expressed, MGD-MRK-28104,MGI:1277105,MGI:2140330,MGI:2140438,MGI:2140559,Plaa,Uf43,expressed sequence A1536418,expressed sequence AU018845,expressed sequence AW208417,phospholipase A2, activating protein	phospholipase A2, activating protein
Plc4	NM_013829.2	A930039I07RIK,A1854601,C230058B11RIK,MGD-MRK-35936,MGI:1925078,MGI:2139106,MGI:2443533,Plc4,RIKEN cDNA A930039I07 gene,RIKEN cDNA C230058B11 gene,expressed sequence A1854601,phospholipase C, beta 4	phospholipase C, beta 4

Plekhl1	NM_001163184.1	A1315628,MGI:2141901,PH domain containing protein in retina 1,PHR1,Phret1,Plekhl1,evt-1,expressed sequence	pleckstrin homology domain containing, family B (evectins) member 1
Plip	NM_026383.3	A1315628,pleckstrin homology domain containing, family B (evectins) member 1 061001006Rik,AV001002,MGI:2142726,Plip,RIKEN cDNA 061001006 gene,Tm4s11,expressed sequence	plasma membrane proteolipid
Plipl	NM_011123.3	AV001002,plasma membrane proteolipid,plasmolipin,transmembrane 4 superfamily member 11 DM20,MGD-MRK-11530,MGD-MRK-12562,MGD-MRK-13363,MGD-MRK-14219,Plp,Plp1,jimpy,jp,msd,myelin synthesis deficiency,proteolipid protein (myelin),proteolipid protein (myelin) 1,rsh,rump shaker	proteolipid protein (myelin) 1
Pldc2	NM_026162.5	1200007L2Rik,5430431D22Rik,A1646728,AU022916,AV231634,MGI:1921756,MGI:2139026,MGI:2139203,MGI:2139259,Pldc2,RIKEN cDNA 1200007L24 gene,RIKEN cDNA 5430431D22 gene,Tem7r,expressed sequence	plexin domain containing 2
Plexb3	NM_019587.2	A1646728,expressed sequence AU022916,expressed sequence AV231634,plexin domain containing 2 A455018,MGI:2147891,MGI:2152211,Plnx6,Plnx3,expressed sequence A455018,plexin 6,plexin B3 2210418I02Rik,AW455466,MGI:1917408,MGI:2139348,N4w0p4,PMEPA1,Pmeapa1,RIKEN cDNA 2210418I02 gene,STAG1,Tmeap,expressed sequence AW455466,prostate transmembrane protein, androgen induced	plexin B3
Pmpa1	NM_022995.3	1,transmembrane, prostate androgen induced RNA Gas-3,MGD-MRK-13371,MGD-MRK-15215,MGD-MRK-9988,MGI:5426059,Pmp22,TRE002,Tr,growth arrest specific	prostate transmembrane protein, androgen induced 1
Pmp22	NM_008885.2	3,peripheral myelin protein 22,trembler,tremor mutant 002	peripheral myelin protein 22
Pnoc	NM_001205075.1	MGD-MRK-32349,N/O,FQ,N2K,Npn1,OFQ,N,Fnoc,neuropeptide nociceptin 1,prepronociceptin,proorphalinin 493342M13Rik,CPR,CYPOR,MGD-MRK-13585,MGI:1921707,NADH cytochrome P450 oxidoreductase,P450	prepronociceptin
Por	NM_008898.1	(cytochrome) oxidoreductase,Por,RIKEN cDNA 493342M13 gene 2310003C21Rik,2900017D14Rik,A1427932,AU017636,MGD-MRK-16669,MGI:1916736,MGI:1920167,MGI:2144816,MGI:2144943,MMPa-2,MPPa-1,Mpp alpha,Ppm1a,RIKEN cDNA	P450 (cytochrome) oxidoreductase
Ppm1a	NM_008910.3	2310003C21 gene,RIKEN cDNA 2900017D14 gene,expressed sequence A1427932,expressed sequence AU017636,protein phosphatase 1A, magnesium dependent, alpha isoform	protein phosphatase 1A, magnesium dependent, alpha isoform
Ppm1l	NM_178276.2	5930404J21Rik,A1481720,AW045850,MGI:2139948,PP2C-epsilon,PP2ce,Ppm1,RIKEN cDNA 5930404J21 gene,expressed sequence A1481720,expressed sequence AW045850,protein phosphatase 1 (formerly ZC)-like MGI:2144711,PP2a,PP2ca,R75353,expressed sequence R75353,protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	protein phosphatase 1 (formerly ZC)-like protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform
Ppp2ca	NM_019411.4	2900020H06Rik,G330404L05Rik,E130009M08Rik,MGI:1917986,MGI:2442228,PP2A-PR55B,PR55-BETA,PPp2r2b,RIKEN cDNA 2900020H06 gene,RIKEN cDNA G330404L05 gene,RIKEN cDNA E130009M08 gene,SCA12,protein phosphatase 2, regulatory subunit B, beta	protein phosphatase 2, regulatory subunit B, beta
Ppp2r2b	NM_028392.2	1110063116Rik,Caln1,CnAbeta,Cnab,MGD-MRK-1737,MGD-MRK-35624,MGI:1913465,PP2BA beta,Ppp3cb,RIKEN cDNA	protein phosphatase 3, catalytic subunit, beta isoform
Ppp3cb	NM_008914.1	1110063116 gene,calcineurin, beta subunit,protein phosphatase 3, catalytic subunit, beta isoform	protein phosphatase 3, catalytic subunit, beta isoform
Ppp3r1	NM_024459.2	CaN1,Cnb1,MGD-MRK-35633,PP2B beta 1,Ppp3r1,protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I)	protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I)
Ppt1	NM_008917.3	953004G02Rik,AA60502,C77813,CLN1,D4ErtD184e,DNA segment, Chr 4, ERATO Doi 184, expressed,MGI:1196214,MGI:1925934,MGI:2140181,MGI:2140662,Ppt1,RIKEN cDNA 953004G02 gene,expressed sequence AA60502,expressed sequence C77813,palmitoyl-protein thioesterase 1	palmitoyl-protein thioesterase 1
Prf1	NM_011073.2	MGD-MRK-13251,MGD-MRK-13605,Pfn,Pfp,Prf-1,Prf1,perforin,perforin 1,perforin 1 (pore forming protein),pore forming protein	perforin 1 (pore forming protein)
Prkab1	NM_031869.2	1300015D22Rik,AU021155,MGI:1923533,MGI:2141055,Prkab1,RIKEN cDNA 1300015D22 gene,expressed sequence AU021155,protein kinase, AMP-activated, beta 1 non-catalytic subunit	protein kinase, AMP-activated, beta 1 non-catalytic subunit
Prkab2	NM_182997.2	5730553K21Rik,AW049591,BB124140,MGI:1922036,MGI:2139959,MGI:2140024,Prkab2,RIKEN cDNA 5730553K21 gene,expressed sequence AW049591,expressed sequence BB124140,protein kinase, AMP-activated, beta 2 non-catalytic subunit	protein kinase, AMP-activated, beta 2 non-catalytic subunit
Prkacb	NM_001164198.1	MGD-MRK-13325,Prkacb,Prkacb,cAMP-dependent protein kinase C beta,protein kinase, cAMP dependent, catalytic, beta	protein kinase, cAMP dependent, catalytic, beta
Prkag1	NM_016781.2	AA571379,BB036179,MGD-MRK-37454,MGI:2145917,MGI:2146255,Prkaac,Prkag1,expressed sequence AA571379,expressed sequence BB036179,protein kinase, AMP-activated, gamma,protein kinase, AMP-activated, gamma 1 non-catalytic subunit	protein kinase, AMP-activated, gamma 1 non-catalytic subunit
Prkar1a	NM_001313973.2	1300018C22Rik,MGD-MRK-15266,MGD-MRK-15269,MGD-MRK-29031,MGI:1914726,Prkar1a,RIKEN cDNA 1300018C22 gene,Ralalpha,Tse-1,Tse1,protein kinase, cAMP dependent regulatory, type I, alpha,tissue specific extinction 1, of TAT	protein kinase, cAMP dependent regulatory, type I, alpha
Prkcd	NM_011103.2	A1385711,D14Ert420e,DNA segment, Chr 14, ERATO Doi 420, expressed,MGD-MRK-13330,MGI:1196301,MGI:2145627,PKC[d],PKCdelta,PKcd,Prkcd,expressed sequence A1385711,protein kinase C, delta	protein kinase C, delta
Prkce	NM_011104.2	5830406C15Rik,MGD-MRK-13331,MGI:1914847,MGI:2147156,PKC[e],PKCepsilon,PKce,Prkce,R75156,RIKEN cDNA 5830406C15 gene,expressed sequence R75156,protein kinase C, epsilon	protein kinase C, epsilon
Prkci	NM_008857.3	2310021H13Rik,A1427505,MGD-MRK-16019,MGD-MRK-20662,MGI:104625,MGI:1919155,MGI:2139701,PKClambda,Pkci,PKci,Prkci,RIKEN cDNA 2310021H13 gene,aPKClambda,expressed sequence A1427505,protein kinase C, iota,protein kinase C, lambda	protein kinase C, iota
Prkck	NM_008859.2	A130035A12Rik,AW494342,MGD-MRK-13333,MGI:2139356,MGI:2442369,PKC theta,PKC-0,PKC-theta,PKCtheta,Pkck,Prkck,RIKEN cDNA A130035A12 gene,expressed sequence AW494342,protein kinase C, theta	protein kinase C, theta
Prkcz	NM_001355178.1	A1098070,C80388,MGD-MRK-13334,MGI:2140186,MGI:2140684,MGI:2140714,Prkcz,Prkcz,R74924,aPKCzeta,expressed sequence A1098070,expressed sequence C80388,expressed sequence R74924,protein kinase C, zeta,zetaPKC A1326420,AU019811,DNA-PK,DKA-PKcs,DNA-PKcs,DOXNPH,MGD-MRK-14312,MGD-MRK-28071,MGI:2146417,MGI:2146554,MGI:3574416,Prkcd,XRCC7,doxorubicin nephropathy,dmp,h,expressed sequence A1326420,expressed sequence AU019811,protein kinase, DNA activated, catalytic polypeptide,scid,severe combined immunodeficiency,slip	protein kinase C, zeta
Prkdc	NM_011159.2	28071,MGI:2146417,MGI:2146554,MGI:3574416,Prkcd,XRCC7,doxorubicin nephropathy,dmp,h,expressed sequence A1326420,expressed sequence AU019811,protein kinase, DNA activated, catalytic polypeptide,scid,severe combined immunodeficiency,slip	protein kinase, DNA activated, catalytic polypeptide
Prosl	NM_011173.2	AW214361,MGI:2146630,Prosl,expressed sequence AW214361,protein S,protein S (alpha)	protein S (alpha)
Psen1	NM_008943.2	Ad3h,MGD-MRK-35912,MGI:107441,PS-1,PS1,Psen1,S182,alzheimer disease 3 homolog,presenilin 1,presenilin-1	presenilin 1
Psm5	NM_011967.3	Psm5a,proteasome subunit alpha 5	proteasome subunit alpha 5
Psmb8	NM_010724.2	Lmp-7,Lmp7,MGD-MRK-11822,MGD-MRK-11824,MGI:96798,Psmb8,large multifunctional protease 7,low molecular weight polypeptide 7,proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)
Psmc2	NM_011188.3	MGD-MRK-39554,Psmc2,proteasome (prosome, macropain) 26S subunit, ATPase 2	proteasome (prosome, macropain) 26S subunit, ATPase 2
Psmc6	NM_025959.3	2300001E01Rik,A1451058,MGI:2145653,Psmc6,RIKEN cDNA 2300001E01 gene,expressed sequence A451058,proteasome (prosome, macropain) 26S subunit, ATPase, 6	proteasome (prosome, macropain) 26S subunit, ATPase, 6
Psmd10	NM_001164177.1	AW554874,MGI:2148025,Psmd10,expressed sequence AW554874,gankyrin,proteasome (prosome, macropain) 26S subunit, non-ATPase, 10	proteasome (prosome, macropain) 26S subunit, non-ATPase, 10
Psmd14	NM_021526.2	2610312C03Rik,3200001M20Rik,AA986732,MGI:1915210,MGI:1919662,MGI:2138822,POH1,Psd1,Psm14,RIKEN cDNA 2610312C03 gene,RIKEN cDNA 3200001M20 gene,expressed sequence AA986732,proteasome (prosome, macropain) 26S subunit, non-ATPase, 14	proteasome (prosome, macropain) 26S subunit, non-ATPase, 14
Psmd6	NM_025550.2	2400006A19Rik,Psmd6,RIKEN cDNA 2400006A19 gene,proteasome (prosome, macropain) 26S subunit, non-ATPase, 6	proteasome (prosome, macropain) 26S subunit, non-ATPase, 6
Ptger4	NM_008965.1	EP4,MGD-MRK-25639,Ptger4,Ptger4,prostaglandin E receptor 4 (subtype EP4),prostaglandin E receptor EP4 subtype	prostaglandin E receptor 4 (subtype EP4)
Ptgis	NM_008968.3	Cyp8a1,Pgi2,Pgis,Ptgis,prostaglandin I2 (prostacyclin) synthase	prostaglandin I2 (prostacyclin) synthase
Ptgs2	NM_011198.3	COX2,Cox-2,MGD-MRK-13665,PGHS-2,PHS-2,Ptgs2,Tis10,cyclooxygenase 2,cyclooxygenase-2,prostaglandin G/H synthase,prostaglandin-endoperoxide synthase 2	prostaglandin-endoperoxide synthase 2
Pth2r	NM_139270.2	Pth2r,Pth2r,parathyroid hormone 2 receptor,parathyroid hormone receptor 2	parathyroid hormone 2 receptor
Ptk2	NM_007982.2	FAK,FRNK,Fadk,MGD-MRK-9708,PTK2,protein tyrosine kinase 2,PK2,focal adhesion kinase Cakbeta,E430023005Rik,MGD-MRK-29062,MGI:2444305,PTK2,protein tyrosine kinase 2 beta,PYK2,PK2b,RIKEN cDNA E430023005 gene,Rafk,calcium-dependent tyrosine kinase,cellular adhesion kinase beta,proline-rich tyrosine kinase 2,related adhesion focal tyrosine kinase	PTK2 protein tyrosine kinase 2 beta
Ptk2b	NM_001162365.1	MGD-MRK-13674,PTP-1B,PTP1B,Ptpn1,protein tyrosine phosphatase, non-receptor type 1	PTK2 protein tyrosine kinase 2 beta
Ptpn1	NM_011201.3	2700084A17Rik,AWS36184,MGD-MRK-16288,MGI:1919896,MGI:2141206,PTP1D,PTP2C,Ptpn11,RIKEN cDNA 2700084A17 gene,SH-PTP2,SH2 domain-containing protein tyrosine phosphatase-2,SHP-2,Shp2,Syp,expressed sequence AWS36184,protein tyrosine phosphatase, non-receptor type 11	protein tyrosine phosphatase, non-receptor type 11
Ptpn11	NM_011202.3	B220,CD45,CD45 antigen,cd45,Ly-5,Ly-4,MGD-MRK-11992,MGD-MRK-12076,MGD-MRK-13679,MGD-MRK-1864,MGI:3584395,Ptpnc,T-lymphocyte antigen 4,T200,lymphocyte antigen 5,protein tyrosine phosphatase, receptor type, C	protein tyrosine phosphatase, receptor type, C
Ptpnc	NM_011210.3	MGD-MRK-19598,Ptpnm,RPTpmu,protein tyrosine phosphatase, receptor type, M	protein tyrosine phosphatase, receptor type, M
Ptpnm	NM_008984.2	A1850339,DSD-1-PG,MGD-MRK-13685,MGI:2141501,PTPbeta,PTPzeta,Ptprz,Ptpr1,Ptpr,RPTPz,Rptbeta,expressed sequence A1850339,phosphacan,protein tyrosine phosphatase, receptor type 2, polypeptide 1	protein tyrosine phosphatase, receptor type 2, polypeptide 1
Ptprz	NM_001081306.1	A1607804,MGD-MRK-26079,MGI:2139768,Ptx3,TSG-14,expressed sequence A1607804,penetraxin 3,penetraxin related gene	penetraxin related gene
Ptx3	NM_008987.3	Gtbp,MGD-MRK-10329,MGD-MRK-13744,MGD-MRK-13745,MGD-MRK-15847,RAB1, member RAS oncogene family,RAB1A, member RAS oncogene family,Rab-1,Rab1a,Ypt1,mKIAA3012, members RAS oncogene family,name unknown at this time 12/9/92,ras-related YPT1 protein,ypt-1 ras-related GTP binding protein	RAB1A, member RAS oncogene family
Rab1a	NM_008996.4	MGD-MRK-13746,RAB3a, member RAS oncogene family,Rab3a	RAB3A, member RAS oncogene family
Rab3a	NM_009001.6	A1844641,C33006L04Rik,D9Bwg0185e,DNA segment, Chr 9, Brigham & Women's Genetics 0185 expressed,MGD-MRK-35748,MGI:1924738,MGI:2143137,RAB6B, member RAS oncogene family,RIKEN cDNA C33006L04 gene,Rab6b,expressed sequence A1844641	RAB6B, member RAS oncogene family
Rab6b	NM_173781.4	0610007D13Rik,AV001138,MGD-MRK-32169,MGI:1925602,MGI:2140506,RAD23 homolog B, nucleotide excision repair protein,RIKEN cDNA 0610007D13 gene,Rad23b,expressed sequence AV001138,mHR23B	RAD23 homolog B, nucleotide excision repair protein
Rad23b	NM_009011.4	IBAP-1,RAN binding protein 9,RanBPM,Ranbp9	RAN binding protein 9
Ranbp9	NM_019930.2		

Rapgef2	NM_001099624.2	5830453M24Rik,CNRasGEF,MGI:1923339,PDZ domain containing guanine nucleotide exchange factor (GEF) 1_Pdzgef1,RA-GEF-1,RIKEN cDNA 5830453M24 gene,Rap guanine nucleotide exchange factor (GEF) 2_Rapgef2,mKIAA0313,nRapGEF GTase activating protein,Gap,MGC:7759,MGD-MRK-13770,MGD-MRK-9965,RAS p21 protein activator 1,Rasa1,p120-rasGAP	Rap guanine nucleotide exchange factor (GEF) 2
Rasa1	NM_145452.3	A1844718,CDC25,CDC25Mm,Grf1,Grfbeta,MGD-MRK-16479,MGI:1347052,MGI:2143138,RAS protein-specific guanine nucleotide-releasing factor 1,Rasgrf1,expressed sequence A1844718,guanine nucleotide releasing factor 1	RAS p21 protein activator 1
Rasgrf1	NM_011245.2	RAS guanyl-releasing protein 1,Rasgrp1	RAS protein-specific guanine nucleotide-releasing factor 1
Rasgrp1	NM_011246.2	1500002P15Rik,AA517855,MGI:1913478,MGI:2145915,RIKEN cDNA 1500002P15 gene,ROCL1,Rbx1,expressed sequence AA517855,ring-box 1	RAS guanyl-releasing protein 1
Rbx1	NM_019712.3	Reck,S115,revision-inducing-cysteine-rich protein with kazal motifs,suppression of tumorigenicity 15 (reversion-inducing-cysteine-rich protein with kazal motifs)	ring-box 1
Reck	NM_016678.2	A1324241,AU022809,AW495741,DP1/TB2,Dbp1,MGI:2147209,MGI:2147316,MGI:2147366,MGI:2147419,R74856,Reep5,TB2/DP1,deleted in polyposis 1,expressed sequence A1324241,expressed sequence AU022809,expressed sequence AW495741,expressed sequence R74856,accessory protein 5	reversion-inducing-cysteine-rich protein with kazal motifs
Reep5	NM_007874.3	MGD-MRK-13846,RETS1,RET9,Ret,c-Ret,ret proto-oncogene	receptor accessory protein 5
Ret	NM_009050.2	4933412G19Rik,RIKEN cDNA 4933412G19 gene,Rfx4,regulatory factor X, 4 (influences HLA class II expression)	ret proto-oncogene
Rfx4	NM_027689.3	AA017882,Arhb,MGD-MRK-36529,MGI:2144717,Rhob,expressed sequence AA017882,ras homolog family member B,ras homolog gene family, member B	regulatory factor X, 4 (influences HLA class II expression)
Rhob	NM_007483.3	C03003M19Rik,MGI:1924723,RIKEN cDNA C03003M19 gene,RIM1,RIM1A,RIM1alpha,Rims1,regulating synaptic membrane exocytosis 1	ras homolog family member B
Rims1	NM_053270.1	AL022832,AW743871,Ha1r,MGI:1353615,MGI:2147943,MGI:2148028,Rlim,Rlim1,Rnf12,expressed sequence AL022832,expressed sequence AW743871,ring finger protein 12,ring finger protein,LIM domain interacting	regulating synaptic membrane exocytosis 1
Rlim	NM_011276.3	2-S4A-dependent RNaseE,E23002904Rik,MGI:2445191,RIKEN cDNA E23002904 gene,Rnasel,ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)	ring finger protein, LIM domain interacting
Rnasel	NM_011882.2	AA675934,MGI:2140785,RhfD0,expressed sequence AA675934,mKIAA0262,ring finger protein 10	ribonuclease L (2', 5'-oligoadenylate synthetase-dependent)
Rnf10	NM_016698.2	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	ring finger protein 10
Rock2	NM_009072.2	MGC:38728,MGI:3838140,Nr1f2,RAR-related orphan receptor beta,RZR-beta,Rorb,Rorbeta,high stepper,hstp	Rho-associated coiled-coil containing protein kinase 2
Rorb	NM_001043354.2	0710005K15Rik,4930441F12Rik,MGC:40985,MGI:1913343,MGI:1926049,MGI:2145135,Nsp,R75279,RIKEN cDNA 0710005K15 gene,RIKEN cDNA 4930441F12 gene,Rtn1,Rtn1-a,Rtn1-b,Rtn1-c,expressed sequence R75279,reticulon 1	RAR-related orphan receptor beta
Rtn1	NM_001007596.2	1110020G17Rik,AA407876,AA09940,AA960376,C13002610Rik,MGI:2143973,MGI:2144005,MGI:2144056,NOGO,NgA,Nogo-A,Nogo-B,RIKEN cDNA 1110020G17 gene,RIKEN cDNA C13002610 gene,Rtn4,expressed sequence AA407876,expressed sequence AA09940,expressed sequence AA960376,mKIAA0886,reticulon 4	reticulon 1
Rtn4	NM_194053.3	Gm1018,LOC381489,Lgr7,MGI:2685864,Rxfp1,expressed sequence Gm1018,(NCBI)leucine-rich repeat-containing G protein-coupled receptor 7,relaxin/insulin-like family peptide receptor 1	reticulon 4
Rxfp1	NM_212452.1	42C,AA409961,AL024248,CAL12,CLP11,Ca11,MGD-MRK-1728,MGI:2139574,MGI:2139857,MGI:88247,S100 calcium binding protein A10 (calpactin),S100a10,calpactin 1 light chain,expressed sequence AA409961,expressed sequence AL024248,p10	relaxin/insulin-like family peptide receptor 1
S100a10	NM_009112.2	A1850290,MGD-MRK-14269,MGI:2143688,S100 protein, beta polypeptide, neural,S100b,expressed sequence A1850290	S100 calcium binding protein A10 (calpactin)
S100b	NM_009115.3	Msal-3,Sall1,spalt like transcription factor 1	S100 protein, beta polypeptide, neural
Sall1	NM_021390.3	B13002204Rik,MGD-MRK-36133,MGD-MRK-38340,MGI:2442452,Msal,Msal-1,RIKEN cDNA B13002204 gene,Sall3,Sall1,Spalt,spalt homolog (Drosophila),spalt like transcription factor 3,spalt homolog (Drosophila)	spalt like transcription factor 1
Sall3	NM_178280.3	1110030L07Rik,RIKEN cDNA 1110030L07 gene,SAMM50 sorting and assembly machinery component,Samm50	spalt like transcription factor 3
Samm50	NM_178614.4	MGD-MRK-14319,Nav1.1,Scn1a,sodium channel, voltage-gated, type I, alpha	SAMM50 sorting and assembly machinery component
Scn1a	NM_018733.2	A1853486,C630029C19Rik,MGD-MRK-123187,MGD-MRK-24035,MGI:2146092,MGI:2152446,MGI:2183468,MGI:2429910,MGI:2444216,MGI:2671467,MGI:3612947,NMF335,NaChv,Nav1.6,RIKEN cDNA C630029C19 gene,Scn8a,ataxia 3,degenerating muscle,dmu,expressed sequence A1853486,med,mnd-2,mnd2,motor end-plate disease,neurological 14,neuroscience mutagenesis facility, 2,neuroscience mutagenesis facility, 335,neuroscience mutagenesis facility, 58,nmf2,nmf335,nmf58,nur14,seal,sodium channel, voltage-gated, type VIII, alpha	sodium channel, voltage-gated, type I, alpha
Scn8a	NM_011323.3	0610011C06Rik,2810002J11Rik,AA415030,MGI:1914876,MGI:1923509,MGI:2142423,RIKEN cDNA 0610011C06 gene,RIKEN cDNA 2810002J11 gene,Scoc,expressed sequence AA415030,short coiled-coil protein	sodium channel, voltage-gated, type VIII, alpha
Scoc	NM_019708.4	AA409774,AA409893,C76618,C79031,MGD-MRK-14327,MGI:2140147,MGI:2140148,MGI:2140647,MGI:2140673,NSL-TP,SCP-2,SCP2,expressed sequence AA409774,expressed sequence AA409893,expressed sequence C76618,expressed sequence C79031,non-specific lipid transfer protein,n-LTP,sterol carrier protein 2, liver	short coiled-coil protein
Scp2	NM_011327.4	MGD-MRK-14354,MGI:98275,Msec23,SEC23 homolog A, COPII coat complex component,Sec23a,Sec23r,secretory protein,SEC23 related (S. cerevisiae)	sterol carrier protein 2, liver
Sec23a	NM_009147.2	Sec51, alpha subunit 2 (S. cerevisiae),Sec51a2	SEC23 homolog A, COPII coat complex component
Sec51a2	NM_021305.3	1500011E07Rik,C78786,H-H-47,H4,H47,MGD-MRK-10460,MGD-MRK-10468,MGD-MRK-10590,MGI:1916234,MGI:2142327,RIKEN cDNA 1500011E07 gene,Selenos,Seps1,VCP-interacting membrane protein,Vimp,expressed sequence C78786,histocompatibility 4,histocompatibility 47,selenoprotein 5	SEC51, alpha subunit 2 (S. cerevisiae)
Selenos	NM_001348246.1	AA59945,AA960047,AIGP1,DIFF33,MGI:2138812,MGI:2138813,Serinc3,TMS-1,Tde1,expressed sequence AA59945,expressed sequence AA960047,serine incorporator 3,tumor differentially expressed 1	selenoprotein 5
Serinc3	NM_012032.4	MGD-MRK-32084,Serpin3n,Spiz-2,Spiz2,Spiz2/eb.4,alpha-1 antiprotease,antitrypsin,serine (or cysteine) peptidase inhibitor, clade A, member 3N,serine protease inhibitor 2-2	serine incorporator 3
Serpin3n	NM_009252.2	B230326M24Rik,MGD-MRK-18588,MGI:2443859,P17,PN-1,RIKEN cDNA B230326M24 gene,Serpine2,Sp4,nexin,protease nexin 1,serine (or cysteine) peptidase inhibitor, clade E, member 2,serine protease inhibitor 4	serine (or cysteine) peptidase inhibitor, clade A, member 3N
Serpine2	NM_009255.2	C1 inhibitor,C1INH,C1nh,Serping1,complement component 1 inhibitor,serine (or cysteine) peptidase inhibitor, clade G, member 1	serine (or cysteine) peptidase inhibitor, clade E, member 2
Serping1	NM_009776.3	A1837402,MGI:2139802,Neuroserpin,Ns,P112,Serpin1,Sp17,expressed sequence A1837402,serine (or cysteine) peptidase inhibitor, clade I, member 1,serine protease inhibitor 17	serine (or cysteine) peptidase inhibitor, clade G, member 1
Serpin1	NM_009250.2	Sgce,e-SG,sarcoglycan, epsilon	serine (or cysteine) peptidase inhibitor, clade I, member 1
Sgce	NM_001130188.1	Duncan disease homolog,SH3,SH2 domain containing 1A,Sh2d1a	sarcoglycan, epsilon
Sh2d1a	NM_011364.4	953000119Rik,RIKEN cDNA 953000119 gene,SH3 domain protein 2A,SH3-domain GRB2-like 2,Sh3d2a,Sh3g2,endorphin A1,endorphin L1,expressed sequence A1120490,expressed sequence AW555077	SH2 domain containing 1A
Sh3g2	NM_019535.2	ProSAP1,SH3 and multiple ankyrin repeat domains 2,Shank2	SH3 domain GRB2-like 2
Shank2	NM_001113373.2	MGD-MRK-33869,N-Shc,Rai,Shc3,Src,src homology 2 domain-containing transforming protein C3	SH3 and multiple ankyrin repeat domains 2
Shc3	NM_009167.3	6430529G09Rik,RIKEN cDNA 6430529G09 gene,Siglec-H,Siglech,sialic acid binding Ig-like lectin H	src homology 2 domain-containing transforming protein C3
Siglech	NM_178706.4	A1835480,Bit,CD172a,MGD-MRK-36527,MGD-MRK-37607,MGI:107947,MGI:2139057,P84,Ptpns1,SHPS-1,SIRP,Sirpa,brain immunological-like with tyrosine-based motifs,expressed sequence A1835480,protein tyrosine phosphatase, non-receptor tyrosine substrate 1,signal-regulatory protein alpha	sialic acid binding Ig-like lectin H
Sirpa	NM_001291020.1	0610012J09Rik,1500032M05Rik,AV001953,MGI:1917010,MGI:2145383,RIKEN cDNA 0610012J09 gene,RIKEN cDNA 1500032M05 gene,Sirt5,expressed sequence AV001953,sirtuin 5	signal-regulatory protein alpha
Sirt5	NM_178848.3	2610043E24Rik,2610206H23Rik,MGD-MRK-24460,MGI:1917574,MGI:1923841,RIKEN cDNA 2610043E24 gene,RIKEN cDNA 2610206H23 gene,S-phase kinase-associated protein 1A,Skp1a,Tceb1,p195kp1,transcription elongation factor B (SII), polypeptide I-like	sirtuin 5
Skp1a	NM_011543.4	8430417G17Rik,C78479,MGI:2141304,RIKEN cDNA 8430417G17 gene,Slc10a6,expressed sequence C78479,solute carrier family 10 (sodium/bile acid cotransporter family), member 6	S-phase kinase-associated protein 1A
Slc10a6	NM_029415.2	MGD-MRK-18753,Nkcc1,Slc12a2,mBSC2,sodium/potassium/chloride cotransporters,solute carrier family 12, member 2,59-ns	solute carrier family 10 (sodium/bile acid cotransporter family), member 6
Slc12a2	NM_009194.3	KCC2,Slc12a5,mKIAA1176,solute carrier family 12, member 5	solute carrier family 12, member 2
Slc12a5	NM_020333.2	2900073D12Rik,MGI:1920305,RIKEN cDNA 2900073D12 gene,Slc17a6,VGLUT2,solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6	solute carrier family 12, member 5
Slc17a6	NM_080853.3	2900052E22Rik,A1851913,MGI:2142059,RIKEN cDNA 2900052E22 gene,Slc17a7,Vglut1,expressed sequence A1851913,solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 6
Slc17a7	NM_182993.2	A1504299,B430115D02Rik,Eaat1,GLAST,Gmt1,MGD-MRK-16014,MGD-MRK-16274,MGD-MRK-16718,MGI:2146029,MGI:2444735,MGLUT1,RIKEN cDNA B430115D02 gene,Slc1a3,excitatory amino acid transporter 1,expressed sequence A1504299,glutamate transporter 1,solute carrier family 1 (glial high affinity glutamate transporter), member 3	solute carrier family 17 (sodium-dependent inorganic phosphate cotransporter), member 7
Slc1a3	NM_148938.3	NCKX3,Slc24a3,solute carrier family 24 (sodium/potassium/calcium exchanger), member 3	solute carrier family 1 (glial high affinity glutamate transporter), member 3
Slc24a3	NM_001356497.1	2610002D09Rik,A1839531,B230107K20Rik,BB129864,MGI:2139062,MGI:2139433,RIKEN cDNA 2610002D09 gene,RIKEN cDNA B230107K20 gene,Slc25a12,expressed sequence A1839531,expressed sequence BB129864,solute carrier family 25 (mitochondrial carrier, Aralar), member 12	solute carrier family 24 (sodium/potassium/calcium exchanger), member 3
Slc25a12	NM_172436.3	34Da,PMP34,Slc25a17,solute carrier family 25 (mitochondrial carrier, peroxisomal membrane protein), member 17	solute carrier family 25 (mitochondrial carrier, Aralar), member 12
Slc25a17	NM_011399.3	AU019225,Ant1,MGD-MRK-16246,MGI:2142690,MGI:199472,Slc25a4,adenine nucleotide translocase-1,adenine nucleotide translocator 1, skeletal muscle,expressed sequence AU019225,solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 4	solute carrier family 25 (mitochondrial carrier, peroxisomal membrane protein), member 17
Slc25a4	NM_007450.4	A1526984,GLUT5,MGI:2140325,Slc2a5,expressed sequence A1526984,solute carrier family 2 (facilitated glucose transporter), member 5	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 4
Slc2a5	NM_019741.3		solute carrier family 2 (facilitated glucose transporter), member 5

Slc38a1	NM_001166458.1	AA408026,AA409865,AL022800,AU015942,MGI:2145903,MGI:2146107,MGI:2146126,NAT2,Slc38a1,expressed sequence AA408026,expressed sequence AA409865,expressed sequence AL022800,expressed sequence AU015942,solute carrier family 38, member 1	solute carrier family 38, member 1
Slc46a1	NM_026740.2	1110002C08RIK,D11Erd18e,DNA segment, Chr 11, ERATO Doi 18, expressed,HCP1,MGI:1915739,PCFT,RIKEN cDNA 1110002C08 gene,Slc46a1,heme carrier protein 1,solute carrier family 46, member 1	solute carrier family 46, member 1
Slc6a1	NM_178703.4	GAT-1,Gab1,gab1,gat1,MGD-MRK-19419,MGD-MRK-9946,MGD-MRK-9947,Slc6a1,X transporter protein 1,XT-1,Xrtp1,gamma-aminobutyric acid (GABA-A) transporter, gamma-aminobutyric acid (GABA-A) transporter 1,solute carrier family 6 (neurotransmitter transporter, GABA), member 1	solute carrier family 6 (neurotransmitter transporter, GABA), member 1
Slc7a8	NM_016972.2	AA408822,IAI2,MGI:2145551,Slc7a8,expressed sequence AA408822,solute carrier family 7 (cationic amino acid transporter, y+ system), member 8	solute carrier family 7 (cationic amino acid transporter, y+ system), member 8
Slc8a1	NM_011406.3	A185269,AV344025,093008012RIK,MGD-MRK-36536,MGI:2146942,MGI:2147028,MGI:2441999,Ncx1,RIKEN cDNA D93008012 gene,Slc8a1,expressed sequence A185269,expressed sequence AV344025,solute carrier family 8 (sodium/calcium exchanger), member 1	solute carrier family 8 (sodium/calcium exchanger), member 1
Slc9a6	NM_172780.3	643052C02RIK,NHE6,RIKEN cDNA 643052C02 gene,Slc9a6,mKIAA0267,solute carrier family 9 (sodium/hydrogen exchanger), member 6	solute carrier family 9 (sodium/hydrogen exchanger), member 6
Slc9b2	NM_178877.6	C80638,NHA2,NHE10,Na+/H+ exchanger domain containing 2,Nhed2,Slc9b2,expressed sequence C80638,nha-oc,solute carrier family 9, subfamily B (NHA2, cation proton antiporter 2), member 2	solute carrier family 9, subfamily B (NHA2, cation proton antiporter 2), member 2
Slco2b1	NM_001252531.1	A1060904,A1852653,MGI:2141865,MGI:2142064,OATP-B,Slc12a9,Slco2b1,expressed sequence A1060904,expressed sequence A1852653,solute carrier family 21 (organic anion transporter), member 9,solute carrier organic anion transporter family, member 2b1	solute carrier organic anion transporter family, member 2b1
Slpi	NM_0111414.3	MGD-MRK-38342,Slpi,secretory leukocyte peptidase inhibitor	secretory leukocyte peptidase inhibitor
Smad3	NM_016769.4	AU02421,MGI:214321k,Math3,SMAD family member 3,Smad3,Smad3,expressed sequence AU02421	SMAD family member 3
Snap25	NM_011428.3	Bdr,GENA 70,MGD-MRK-14461,MGI:1861990,SNAP-25,Snap25,blind drunk,sp,synaptosomal-associated protein 25 B430204E11RIK,Cu(2+)-Zn2+ superoxide dismutase,Cu,Zn-SOD,Cu,ZnSOD,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	synaptosomal-associated protein 25
Sod1	NM_011434.1		superoxide dismutase 1, soluble
Sox10	XM_128139.6	Dom,MGD-MRK-10325,MGD-MRK-14497,MGD-MRK-38228,MGD-MRK-8879,MGI:109184,MGI:94914,MGI:95866,SRY (sex determining region Y)-box 10,SRY-box containing gene 21,Sox10,Sox21,dominant megacolon,gray tremor,gt MGD-MRK-14493,MGD-MRK-14503,MGI:1891165,MGI:2181707,SRY (sex determining region Y)-box 2,Sox-	SRY (sex determining region Y)-box 10
Sox2	NM_011443.3	2,Sox2,icc,light coat and circling,yellow submarine,ysb 2010306G03RIK,AV220920,MGD-MRK-14510,MGI:1917265,MGI:2144464,RIKEN cDNA 2010306G03 gene,SRY (sex determining region Y)-box 9,Sox9,expressed sequence AV220920	SRY (sex determining region Y)-box 2
Sox9	NM_011448.4	AA517111,BM-40,MGD-MRK-14514,MGI:2144017,Sparc,expressed sequence AA517111,osteonectin,secreted acidic cysteine rich glycoprotein	SRY (sex determining region Y)-box 9
Sparc	NM_001290817.1		secreted acidic cysteine rich glycoprotein
Sphk1	NM_011451.3	1110006G24RIK,MGI:1913372,RIKEN cDNA 1110006G24 gene,SK1,Sphk1,sphingosine kinase 1	sphingosine kinase 1
Spl1	NM_011355.1	Dis-1,MGD-MRK-14369,MGD-MRK-14370,MGD-MRK-14764,MGD-MRK-15047,PU-1,SFFV proviral integration 1,Sfp1-1,Sfp1,Spl-1,Spl1,Tcpu1,Tfpu1,spleen focus forming virus (SFFV) proviral integration oncogene,transcription factor PU.1	spleen focus forming virus (SFFV) proviral integration oncogene
Splb	NM_019866.1	Spl-B,Spl-B transcription factor (Spl-1/PU.1 related),Splb 2ar,44kDa bone phosphoprotein,AA960535,A1790405,Apl-1,BNSP,ETA-1,Eta,MGD-MRK-13036,MGD-MRK-13037,MGD-MRK-1359,MGD-MRK-13878,MGD-MRK-14544,MGD-MRK-14545,MGD-MRK-9656,MGI:2140792,MGI:2140963,OP,Dpn,Opnl,Ric,Spp-1,Spp1,activation protein lymphocyte 1,bone sialoprotein 1,early T lymphocyte activation,expressed sequence AA960535,expressed sequence A1790405,mingopontin,osteopectin,osteopectin-like protein,ricketsia tsutsugamushi resistance,secreted phosphoprotein 1	Spl-B transcription factor (Spl-1/PU.1 related)
Spp1	NM_009263.3		secreted phosphoprotein 1
Sptan1	NM_001177667.1	2610027H02RIK,MGD-MRK-14536,MGD-MRK-14538,MGI:1923606,RIKEN cDNA 2610027H02 gene,Sptan-2,Sptan2,Sptan1,alpha-fodrin,alphal-spectrin,spectrin alpha 2,spectrin alpha, non-erythrocytic 1	spectrin alpha, non-erythrocytic 1
Sqstm1	NM_011018.3	A170,MGD-MRK-36511,OSF-6,Os1,STAP,Sqstm1,oxidative stress induced,p62,sequestosome 1	sequestosome 1
Srgn	NM_011157.2	MGD-MRK-13606,MGD-MRK-14384,Prg1,Sgc,Srgn,proteoglycan 1, secretory granule,serglycin	serglycin
Srpr	NM_026130.1	130001P19RIK,D11Mg127,DNA Segment, Chr 11, Mouse Genome Informatics 27,MGI:2681058,RIKEN cDNA 130001P19 gene,Srpr,signal recognition particle receptor ('docking protein')	signal recognition particle receptor ('docking protein')
Stab1	NM_138672.2	MS-1,Stab1,mKIAA0246,stablin 1	stablin 1
Stambpl1	NM_029682.4	1700095N21RIK,8230401I17RIK,MGI:1924800,RIKEN cDNA 1700095N21 gene,RIKEN cDNA 8230401I17 gene,STAM binding protein like 1,Stambpl1	STAM binding protein like 1
Stat1	NM_009283.3	2010005J02RIK,AA408197,MGD-MRK-23925,MGI:1923977,MGI:2138078,RIKEN cDNA 2010005J02 gene,Stat1,expressed sequence AA408197,signal transducer and activator of transcription 1	signal transducer and activator of transcription 1
Stat2	NM_019963.1	1600010G07RIK,AW496480,MGD-MRK-23901,MGI:1919271,MGI:2143845,RIKEN cDNA 1600010G07 gene,Stat2,expressed sequence AW496480,signal transducer and activator of transcription 2	signal transducer and activator of transcription 2
Stat3	NM_213659.2	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	signal transducer and activator of transcription 3
Stmn1	NM_019641.4	19K,A131641,Lae1,MS18,MGD-MRK-11729,MGI:2146799,PP17,PP18,PR22,SMN,Stmn1,expressed sequence A131641,leukemia associated phosphoprotein p18,leukemia-associated gene,metablastin,oncoprotein18,op18,p18,p19,pig,proslin,statthmin 1	statthmin 1
Stxbp1	NM_001113569.1	A1317162,A1326233,MGD-MRK-33867,MGD-MRK-35830,MGI:1306809,MGI:2138896,MGI:2138910,Munc-18a,Munc18-1,N-sec1,Rb-sec1,Stxbp1,Stxbp1,Unc18h,expressed sequence A1317162,expressed sequence A1326233,nsec1,syntaxin binding protein 1,unc18 homolog (C. elegans)	syntaxin binding protein 1
Sugt1	NM_026474.5	2410174K12RIK,RIKEN cDNA 2410174K12 gene,SGT1,SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae),Sugt1	SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae)
Sumo1	NM_009460.2	PIC1,SENTRIN,Smc3,Sumo1,Ubl1,small ubiquitin-like modifier 1,ubiquitin-like 1	small ubiquitin-like modifier 1
Sybu	NM_176998.4	5730410E15RIK,A830027B17RIK,Golsyn/Syntaxin,RIKEN cDNA 5730410E15 gene,RIKEN cDNA A830027B17 gene,Sybu,syntaxin-interacting	syntabin (syntaxin-interacting)
Syn1	NM_013680.4	MGD-MRK-14680,MGD-MRK-14681,Syn-1,Syn1,Synapsin Ia,Synapsin Ib,synapsin I 2900074L19RIK,A1836018,A1841723,MGD-MRK-23857,MGI:1914524,MGI:2141475,MGI:2141484,RIKEN cDNA 2900074L19 gene,Syn2,Synapsin Ia,Synapsin Ib,expressed sequence A1836018,expressed sequence A1841723,synapsin II	synapsin I
Syn2	NM_013681.1		synapsin II
Syng1	NM_009303.2	MGI:2146324,R75468,Syng1,Syng1b,expressed sequence R75468,p29,synaptogyrin 1	synaptogyrin 1
Syt1	NM_009306.3	AW124717,G630098F17RIK,MGD-MRK-16452,MGI:2143817,RIKEN cDNA G630098F17 gene,Syt1,expressed sequence AW124717,synaptotagmin I	synaptotagmin I
Syt113	NM_030725.4	5730409DRIK,A154909,MGI:1917750,MGI:2139000,RIKEN cDNA 5730409D20 gene,Syt113,expressed sequence A154909,synaptotagmin XIII	synaptotagmin XIII
Syt4	NM_009308.3	MGD-MRK-18565,Syt4,synaptotagmin IV 3526402J09RIK,5730590C14RIK,MGI:1924347,RIKEN cDNA 3526402J09 gene,RIKEN cDNA 5730590C14 gene,Tanc2,tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2	synaptotagmin IV
Tanc2	NM_181071.3		tetratricopeptide repeat, ankyrin repeat and coiled-coil containing 2
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) 1190002A23RIK,C85084,MGI:1916123,MGI:2140695,RIKEN cDNA 1190002A23 gene,TAR DNA binding protein,TDP-43,Tardbp,Tdp43,expressed sequence C85084	transporter 1, ATP-binding cassette, sub-family B (MDR/TAP)
Tardbp	NM_001008545.2		TAR DNA binding protein
Tbk1	NM_019786.4	1200008B05RIK,A1462036,AW048562,MGI:1914699,MGI:2143617,MGI:2143800,RIKEN cDNA 1200008B05 gene,TANK-binding kinase 1,Tbk1,expressed sequence A1462036,expressed sequence AW048562	TANK-binding kinase 1
Tbr1	NM_009322.3	MGD-MRK-35872,T-box brain gene 1,T-box brain transcription factor 1,Tbr1	T-box brain transcription factor 1
Tbx21	NM_019507.2	T-bet,T-box 21,TBTL1,Tbet,Tblym,Tbx21	T-box 21
Tcl1	NM_009337.3	T cell lymphoma breakpoint 1,Tcl1	T cell lymphoma breakpoint 1
Tenm4	NM_011858.3	Doc4,ELM2,MGD-MRK-11691,MGD-MRK-11723,MGI:2142385,MGI:96735,Odz4,R75022,Ten-m4,Tenm4,expressed sequence R75022,I(7)-3Rn,7Rn3,lethal, Chr 7, Rinchik 3,mKIAA1302,odd Oz/ten-m homolog 4 (Drosophila),teneurin transmembrane protein 4	teneurin transmembrane protein 4
Tfec	NM_031198.3	BB107417,MGI:2141727,TFEC,Tfec,Tfec,bHLHe34,expressed sequence BB107417,transcription factor EC	transcription factor EC
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	transforming growth factor, beta 1
Tgfr1	NM_009370.2	ALK5,AU01791,Alk-5,MGD-MRK-15070,MGI:2140434,TbetaR1,TbetaRI,Tgfr1,expressed sequence AU01791,transforming growth factor, beta receptor I 2310004J08RIK,K polypeptide,MGD-MRK-15072,MGI:1916760,RIKEN cDNA 2310004J08 gene,TG K,Tgase 1,TGase1,Tgm1,protein-glutamine-gamma-glutamyltransferase,transglutaminase 1, K polypeptide	transforming growth factor, beta receptor I
Tgm1	NM_001161714.1		transglutaminase 1, K polypeptide
Th	NM_009377.1	MGD-MRK-15078,Th,tyrosine hydroxylase	tyrosine hydroxylase
Thrb	NM_009380.3	MGD-MRK-15094,MGD-MRK-15095,MGD-MRK-15096,Nr1a2,T3R[b],T3Rbeta,TR beta,Thrb,Thrb1,Thrb2,c-erbAbeta,thyroid hormone receptor beta,thyroid hormone receptor beta 1,thyroid hormone receptor beta 2 CD90,MGD-MRK-15100,MGD-MRK-15102,T25,Thy 1.2,Thy-1.2,Thy-1.1,Thy-1.2,Thy1.1,Thy1.2,theta,thymus cell antigen 1, theta	thyroid hormone receptor beta
Thy1	NM_009382.3		thymus cell antigen 1, theta
Tiam1	NM_009384.3	A1847750,D16lum10,D16lum10e,DNA segment, Chr 16, Indiana University Medical 10,DNA segment, Chr 16, Indiana University Medical 10, expressed,MGD-MRK-24190,MGD-MRK-33864,MGI:106177,MGI:2146497,T cell lymphoma invasion and metastasis 1,Tiam1,expressed sequence A1847750	T cell lymphoma invasion and metastasis 1
Ticam1	NM_174989.4	AW046014,AW547018,MGI:2147076,TICAM-1,Ticam1,Trif,expressed sequence AW046014,expressed sequence AW547018,toll-like receptor adaptor molecule 1	toll-like receptor adaptor molecule 1
Tie1	NM_011587.2	D43008P04RIK,MGD-MRK-16703,MGI:2442090,RIKEN cDNA D43008P04 gene,TIE,Tie1,tie-1,tyrosine kinase with immunoglobulin-like and EGF-like domains 1	tyrosine kinase with immunoglobulin-like and EGF-like domains 1
Timp2	NM_011594.3	D11Bw1104e,DNA segment, Chr 11, Brigham & Women's Genetics 1104 expressed,MGD-MRK-15111,MGD-MRK-15113,MGD-MRK-34056,MGI:106364,TIMP-2,Timp2,tissue inhibitor of metalloproteinase 2	tissue inhibitor of metalloproteinase 2
Tjp1	NM_009386.1	MGD-MRK-15119,Tjp1,ZO-1,ZO1,tight junction protein 1	tight junction protein 1

		5730421P04RIK,AI507121,AI787438,AL118320,MGI:2143087,MGI:2143119,MGI:3034966,RIKEN cDNA 5730421P04 gene,Tln2,expressed sequence AI507121,expressed sequence AI787438,expressed sequence	
Tln2	NM_001081242.2	AL118320,mkIAA0320,talin 2	talin 2
Tlr2	NM_011905.3	Ly105,Tlr2,toll-like receptor 2	toll-like receptor 2
Tlr3	NM_126166.2	AI957183,MGI:2142652,Tlr3,expressed sequence AI957183,toll-like receptor 3	toll-like receptor 3
Tlr4	NM_021297.3	Lps,MGD-MRK-11879,MGD-MRK-26042,RAS-like, family 2, locus 8,RasI2-8,Tlr4,lipopolysaccharide response,toll-like receptor 4	toll-like receptor 4
Tlr7	NM_133211.3	Tlr7,toll-like receptor 7	toll-like receptor 7
Tm4sf1	NM_008536.3	12A8 target antigen,L6,L6 antigen,M3s1,MGD-MRK-27041,Tm4sf1,membrane component, surface marker	
Tmem100	NM_026433.2	1,transmembrane 4 superfamily member 1	transmembrane 4 superfamily member 1
Tmem119	NM_146162.3	1810057C19RIK,AV011897,MGI:2144451,RIKEN cDNA 1810057C19 gene,Tmem100,expressed sequence	
		AV011897,transmembrane protein 100	transmembrane protein 100
		AW208946,BC025600,MGI:2141169,Tmem119,cDNA sequence BC025600,expressed sequence	
		AW208946,qbif,transmembrane protein 119	transmembrane protein 119
		3010015F07RIK,AI115536,BCMP1,MGI:1924083,MGI:3034834,RIKEN cDNA 3010015F07 gene,Tm4sf10,Tmem47,expressed sequence AI115536,transmembrane 4 superfamily member 10,transmembrane protein 47	transmembrane protein 47
Tmem88b	NM_001033394.3	A230069A22RIK,RIKEN cDNA A230069A22 gene,Tmem88b,transmembrane protein 88B	transmembrane protein 88B
Tmsb4x	NM_021278.2	MGD-MRK-16287,Ptmb4,Tb4,Tbeta4,Tmsb4x,prothymosin beta 4,thymosin, beta 4, X chromosome	thymosin, beta 4, X chromosome
Tnf	NM_013693.2	DIF,MGD-MRK-15151,MGD-MRK-28090,TNF alpha,TNF alpha,TNFalpha,Tnf,Tnfa,Tnfsf1a,tumor necrosis factor,tumor necrosis factor, alpha,tumor necrosis factor-alpha	tumor necrosis factor
Tnfrsf11a	NM_009399.3	MGI:1194917,Rank,FRANCE R,Tnfrsf11a, receptor activator of NF-kappaB,tumor necrosis factor receptor superfamily, member 11a, NFKB activator	tumor necrosis factor receptor superfamily, member 11a, NFKB activator
Tnfrsf17	NM_011608.1	BCM,BCMA,Tnfrsf13,Tnfrsf13a,Tnfrsf17,tumor necrosis factor receptor superfamily, member 17	tumor necrosis factor receptor superfamily, member 17
Tnfrsf21	NM_178589.3	AA959878,DR6,Death receptor 6,MGI:2146783,MGI:2147154,R74815,TR7,Tnfrsf21,expressed sequence	
		AA959878,expressed sequence R74815,tumor necrosis factor receptor superfamily, member 21	tumor necrosis factor receptor superfamily, member 21
		1810060K07RIK,BB284719,MGC:6333,MGI:3038507,RIKEN cDNA 1810060K07 gene,TOM20,Tomm20,expressed sequence BB284719,mkIAA0016,translocase of outer mitochondrial membrane 20	
Tomm20	NM_024214.2	2610044B22RIK,D16lum22,D16lum22e,D16Wsu109e,DNA segment, Chr 16, Indiana University Medical 22,DNA segment, Chr 16, Indiana University Medical 22, expressed,DNA segment, Chr 16, Wayne State University 109, expressed,MGD-MRK-33852,MGD-MRK-33987,MGI:106165,MGI:1912799,RIKEN cDNA 2610044B22 gene,Tom70,Tomm70,mkIAA0719,translocase of outer mitochondrial membrane 70A	translocase of outer mitochondrial membrane 20
Tomm70a	NM_138599.5	AI255506,MGD-MRK-15179,MGD-MRK-15180,MGI:2141384,Tpi-1,Tpi1,expressed sequence AI255506,triisophosphate isomerase 1	translocase of outer mitochondrial membrane 70A
Tpi1	NM_009415.2	MGD-MRK-12149,MGD-MRK-12157,MMCP-7,Mcp-7,Mcpt7,Tpsab1,mast cell protease 7,tryptase alpha/beta 1	triisophosphate isomerase 1
Tpsab1	NM_031817.4	AV011504,MGD-MRK-12148,MGD-MRK-12156,MGI:2147011,MMCP-6,Mcp-6,Mcp6,Mcpt6,Tpsb2,expressed sequence	tryptase alpha/beta 1
Tpsb2	NM_010781.3	AV011504,mast cell protease 6,tryptase beta 2	tryptase beta 2
Trac	ENSMUSTO000103740.0	Gm16914,MGD-MRK-14846,MGI:98554,T cell receptor alpha constant,T cell receptor alpha, constant region,Tra-C,Trac,predicted gene, 16914	T cell receptor alpha constant
Trat1	NM_198297.3	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
		MGI:1932924,MGI:1932925,Trem2,Trem2a,Trem2b,Trem2c,triggering receptor expressed on myeloid cells 2,triggering receptor expressed on myeloid cells 2a,triggering receptor expressed on myeloid cells 2b,triggering receptor expressed on myeloid cells 2c	
Trem2	NM_031254.2	Rnf16,Trip17,ring finger protein 16,rnf,tripartite motif-containing 17	triggering receptor expressed on myeloid cells 2c
Trim17	NM_031172.1	Trim2,narf,neural activity-related ring finger protein,tripartite motif-containing 2	tripartite motif-containing 17
Trim2	NM_001271725.1	AI462198,MGI:2146873,Trim26,Tfp173,expressed sequence AI462198,tripartite motif-containing 26,zinc finger protein 173	tripartite motif-containing 2
Trim26	NM_001025599.3	BERP1,HAC1,Rnf22,Trim3,ring finger protein 22,tripartite motif-containing 3	tripartite motif-containing 26
Trim3	NM_018880.3		tripartite motif-containing 3
Trim35	NM_029979.3	0710005M05RIK,AA30106H13RIK,AWO46487,HIS5,MGI:1925036,MGI:2145786,Mair,RIKEN cDNA 0710005M05 gene,RIKEN cDNA AA30106H13 gene,Trim35,expressed sequence AWO46487,mkIAA1098,tripartite motif-containing 35	tripartite motif-containing 35
		1110032A10RIK,2810004E07RIK,AI848587,AU043018,MGI:1915979,MGI:1919603,MGI:2144298,MGI:2144435,MUL,RIK EN cDNA 1110032A10 gene,RIKEN cDNA 2810004E07 gene,TEF3,Trim37,expressed sequence AI848587,expressed sequence AU043018,tripartite motif-containing 37	
Trim37	NM_197987.2	492153N01RIK,RIKEN cDNA 492153N01 gene,Trim45,tripartite motif-containing 45	tripartite motif-containing 37
Trim45	NM_001165952.1	AI385631,MGI:2139686,TRIFIC,Trim46,expressed sequence AI385631,tripartite motif-containing 46	tripartite motif-containing 45
Trim46	NM_001039466.1	AI894158,F730114I12RIK,RIKEN cDNA F730114I12 gene,Rnf137,S5-56,Trim68,expressed sequence AI894158,ring finger protein 137,tripartite motif-containing 68	tripartite motif-containing 46
Trim68	NM_001307998.2	TSC complex subunit 1,Tsc1,hamartin,tuberous sclerosis 1	tripartite motif-containing 68
Tsc1	NM_001289575.1	1200014P11RIK,AI51A323365,Cd231,MGI:1923526,MGI:2147872,MGI:2148083,PE31,R74651,RIKEN cDNA 1200014P11 gene,TALSA,Tmf47,Tspan7,expressed sequence AI273365,expressed sequence R74651,tetraspanin 7,transmembrane 4 superfamily member 2	TSC complex subunit 1
Tspan7	NM_019634.2	Bztp,MGD-MRK-1694,PBR,Tspo,Tspo1,benzodiazepine receptor, peripheral,translocator protein	tetraspanin 7
Tspo	NM_009775.4	AU022242,BC003311,MGC:6989,MGI:2142704,Tusc3,cDNA sequence BC003311,expressed sequence AU022242,tumor suppressor candidate 3	translocator protein
Tusc3	NM_030254.3	AW550880,MGD-MRK-15309,MGI:2140594,Trx1,Txn1,expressed sequence AW550880,thioredoxin 1	tumor suppressor candidate 3
Txn1	NM_011660.3		thioredoxin 1
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
Ube2d2a/b	NM_019912.2	2700059C12RIK,AI256795,AU014992,AW552068,D130023C12RIK,MGI:2144102,MGI:2144367,MGI:2144569,RIKEN cDNA 2700059C12 gene,RIKEN cDNA D130023C12 gene,Ube2g1,expressed sequence AI256795,expressed sequence AU014992,expressed sequence AW552068,ubiquitin-conjugating enzyme E2G 1	
Ube2g1	NM_025985.4	1500026I17RIK,AL022654,BB101821,MGI:2143895,MGI:2144921,UBC13,Ube2n,expressed sequence	ubiquitin-conjugating enzyme E2G 1
Ube2n	NM_080560.3	AL022654,expressed sequence BB101821,ubiquitin-conjugating enzyme E2N	ubiquitin-conjugating enzyme E2N
Ube3c	NM_133907.3	AI853514,Ube3c,expressed sequence AI853514,mkIAA0010,ubiquitin protein ligase E3C	ubiquitin protein ligase E3C
Ube4b	NM_022022.3	493055119RIK,4933406G05RIK,AU014668,D4Bwg0973e,DNA segment, Chr 4, Brigham & Women's Genetics 0973 expressed,MGD-MRK-34208,MGI:106509,MGI:1921672,MGI:1922586,MGI:2140420,RIKEN cDNA 493055119 gene,RIKEN cDNA 4933406G05 gene,UFD2,UFD2a,Ube4b,Ufd2p,expressed sequence	
		AU014668,mkIAA0684,ubiquitination factor E4B	ubiquitination factor E4B
		1110046H03RIK,181000E05RIK,AU019746,C7F538,D13Erd372e,DA41,DNA segment, Chr 13, ERATO Do 372, expressed,Dsk2,MGI:1196410,MGI:1916055,MGI:1917327,MGI:2145351,MGI:2145489,Plnc-1,RIKEN cDNA 1110046H03 gene,RIKEN cDNA 181000E05 gene,Ubqln1,XDRP1,expressed sequence AU019746,expressed sequence	
Ubqln1	NM_026842.4	C7F538,ubiquilin 1	ubiquilin 1
Ubqln2	NM_018798.2	Chap1,Dsk2,HRHF82157,Plnc-2,Ubqln2,ubiquilin 2	ubiquilin 2
Uchl1	NM_011670.2	AW822034,C88048,MGD-MRK-24015,MGD-MRK-9952,MGI:2141250,MGI:2141346,MGI:2141354,MGI:95631,PGP 9.5,PGP9.5,R75593,Uchl1,expressed sequence AW822034,expressed sequence C88048,expressed sequence R75593,gad,gracile axonal dystrophy,ubiquitin carboxy-terminal hydrolase L1	ubiquitin carboxy-terminal hydrolase L1
Ugt8a	NM_011674.4	AI850488,AW455908,Cgt,MGD-MRK-36113,MGD-MRK-39521,MGI:2139820,MGI:2139983,UDP galactosyltransferase 8A,UDP glucuronosyltransferase 8,UDP-galactose ceramide galactosyltransferase,Ugt8,Ugt8a,expressed sequence	
Ulk1	NM_009469.3	AI850488,expressed sequence AW455908,mCerGT	UDP galactosyltransferase 8A
		AU041434,MGI:2141081,Unc51,1,expressed sequence AU041434,mkIAA0722,unc-51 like kinase 1	unc-51 like kinase 1
Unc79	NM_001081017.2	9030205A07RIK,MGI:3701678,Mica3,RIKEN cDNA 9030205A07 Gene,Unc79,modifier of locomotor activity 3,unc-79 homolog	unc-79 homolog
Unc80	NM_175510.3	BC042720,C030018G13RIK,C230061B10RIK,MGI:1925858,MGI:2445028,RIKEN cDNA C030018G13 gene,RIKEN cDNA C230061B10 gene,Unc80,cDNA sequence BC042720,unc-80, NALCN activator	unc-80, NALCN activator
Usp2	NM_016808.2	8930035K21RIK,MGI:2443236,RIKEN cDNA 8930035K21 gene,Usp2,ubiquitin specific peptidase 2,ubp41	ubiquitin specific peptidase 2
Vdac1	NM_011694.4	AI033343,MGD-MRK-35380,MGI:2144363,Vdac1,Vdac5,expressed sequence AI033343,voltage-dependent anion channel 1	voltage-dependent anion channel 1
Vdac3	NM_001198998.1	MGD-MRK-35383,Vdac3,voltage-dependent anion channel 3	voltage-dependent anion channel 3
Vegfa	NM_009505.4	MGD-MRK-24046,VEGF-A,VEGF120,VEGF164,VEGF188,VF,VEgf,Vegfa,vascular endothelial growth factor,vascular endothelial growth factor A	vascular endothelial growth factor A
Vim	NM_011701.4	MGD-MRK-15395,Vim,vimentin	vimentin
Wasf1	NM_031877.3	AI195380,AI838537,MGI:2143538,MGI:2143675,Scar,WAS protein family, member 1,WAVE,WAVE-1,Wasf1,expressed sequence AI195380,expressed sequence AI838537	WAS protein family, member 1
Wdr35	NM_001159527.1	4930459M12RIK,RIKEN cDNA 4930459M12 gene,WD repeat domain 35,Wdr35	WD repeat domain 35
Xcl1	NM_008510.1	AI661682,ATAC,LTN,Lptn,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
Xk	NM_023500.2	1810038K19RIK,MGD-MRK-24454,MGI:1916432,RIKEN cDNA 1810038K19 gene,X-linked Kx blood group,Xk 1-3-3 epsilon,AU019196,MGI:2144388,Ywhae,expressed sequence AU019196,tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide	X-linked Kx blood group
Ywhae	NM_009536.4	14-3-3 gamma,D7Bwg1348e,DNA segment, Chr 7, Brigham & Women's Genetics 1348 expressed,MGD-MRK-34146,MGD-MRK-37346,MGI:106452,Ywhag,tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, epsilon polypeptide
Ywhag	NM_018871.3	14-3-3 eta,MGD-MRK-38238,Ywhah,tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide
Ywhah	NM_011738.2	14-3-3 tau,14-3-3 theta,2700028P07RIK,AA409740,AU021156,MGI:1924055,MGI:2144732,MGI:2144953,MGI:2145131,R74690,RIKEN cDNA 2700028P07 gene,Ywhag,expressed sequence AA409740,expressed sequence AU021156,expressed sequence R74690,tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, eta polypeptide
Ywhaq	NM_011739.3		tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein theta

Ywhaz	NM_011740.2	111001311Rik,14-3-3 zeta,AI596267,AL022924,AU020854,MGD-MRK-39483,MGI:1915893,MGI:2146042,MGI:2146113,MGI:2146160,RIKEN cDNA 111001311 gene,Ywhaz,expressed sequence AI596267,expressed sequence AL022924,expressed sequence AU020854,tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, zeta polypeptide
Zfp365	NM_178679.2	AI839779,AV340892,DBZ,MGI:2143789,Su48,Zfp365,expressed sequence AI839779,expressed sequence AV340892,mKIAA0844,zinc finger protein 365	zinc finger protein 365
Zpr1	NM_011752.2	AI303781,MGI:2143010,ZPR1,ZPR1 zinc finger,Zfp259,Zpr1,expressed sequence AI303781,zinc finger protein 259	ZPR1 zinc finger
<b>Internal Reference Genes</b>			
Aars	NM_146217.4	AI316495,Aars,C76919,MGC:37368,MGI:1890634,MGI:2142499,MGI:2142843,alanyl-tRNA synthetase,expressed sequence AI316495,expressed sequence C76919,sti,stickly	alanyl-tRNA synthetase
Asb10	NM_080444.5	Asb-10,Asb10,BB137407,MGI:2141266,ankyrin repeat and SOCS box-containing 10,expressed sequence BB137407 0610011N2Rik,5430420E17Rik,AI256405,AW050060,Ccdc127,MGI:1918606,MGI:2145196,MGI:2145408,RIKEN cDNA 0610011N22 gene,RIKEN cDNA 5430420E17 gene,colled-coil domain containing 127,expressed sequence	ankyrin repeat and SOCS box-containing 10
Ccdc127	NM_024201.3	AI256405,expressed sequence AW050060	coiled-coil domain containing 127
Cnot10	NM_153585.5	2600001P13Rik,CCR4-NOT transcription complex, subunit 10,Cnot10,RIKEN cDNA 2600001P13 gene 1110035I23Rik,C77789,CK2,Csnk2a2,MGD-MRK-2205,MGI:1915939,MGI:2142847,RIKEN cDNA 1110035I23 gene,casein kinase 2, alpha prime polypeptide,expressed sequence C77789	CCR4-NOT transcription complex, subunit 10
Csnk2a2	NM_009974.3	D11Wsu99e,DNA segment, Chr 11, Wayne State University 99, expressed,Fam104a,MGD-MRK-34043,family with sequence similarity 104, member A	casein kinase 2, alpha prime polypeptide
Fam104a	NM_138598.5	AI747421,Gur,Gus,Gus-r,Gus-s,Gus-t,Gus-u,Gusv,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	family with sequence similarity 104, member A
Gusb	NM_010368.1	Z310045K21Rik,3110009L02Rik,AW536573,Lars,MGI:1920310,MGI:2147367,RIKEN cDNA Z310045K21 gene,RIKEN cDNA 3110009L02 gene,expressed sequence AW536573,leucyl-tRNA synthetase,mKIAA1352	glucuronidase, beta
Lars	NM_134137.2	2310039H01Rik,5730419A02Rik,MGI:1917779,Mto1,RIKEN cDNA 2310039H01 gene,RIKEN cDNA 5730419A02 gene,mitochondrial tRNA translation optimization 1	leucyl-tRNA synthetase
Mto1	NM_026658.2	2610524B01Rik,6030455L14Rik,MGI:1924975,RIKEN cDNA 2610524B01 gene,RIKEN cDNA 6030455L14 gene,SPT7-like, STAGA complex gamma subunit,Supt7l	mitochondrial tRNA translation optimization 1
Supt7l	NM_028150.2	AA474455,Gm145,LOC231151,MGI:2684991,Tada2b,expressed sequence AA474455, gene model 145, (NCBI),transcriptional adaptor 2B	SPT7-like, STAGA complex gamma subunit
Tada2b	NM_001170454.1	Gtf2d,MGD-MRK-18659,MGD-MRK-24009,TATA box binding protein,Tbp,general transcription factor IID D230045I08Rik,MGI:2444044,RIKEN cDNA D230045I08 gene,X-prolyl aminopeptidase (aminopeptidase P) 1, soluble,Xpnpep1	transcriptional adaptor 2B
Tbp	NM_013684.3		TATA box binding protein
Xpnpep1	NM_133216.3		X-prolyl aminopeptidase (aminopeptidase P) 1, soluble
#REF!			#REF!