

nCounter® Mouse AD Consortium Panel - Gene and Probe Details

Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or isoform Information
2410015M20Rik	NM_153152.3	Q111 8430408014Rik,AW539426,Gm449,LOC231620,MGI:1925926,MGI:2141214,MGI:2685295,RIKEN cDNA 8430408014 gene,expressed sequence AW539426, gene model 449, (NCBI),predicted gene 449	RIKEN cDNA 2410015M20 gene	
2900026A02Rik	NM_172884.3		RIKEN cDNA 2900026A02 gene	
6430548M08Rik	NM_172286.4	AW049007,MGI:2142749,expressed sequence AW049007,mKIAA0513	RIKEN cDNA 6430548M08 gene	
A2m	NM_175628.3	A2mp	alpha-2-macroglobulin	
Abca2	NM_007379.2	A1413825,ATP-binding cassette 2,Abc2,D2H051474E, DNA segment, Chr 2, human DOS1474E,MGD-MRK-16391,MGD-MRK-5803,MGI:2138926,expressed sequence A1413825,mKIAA1062	ATP-binding cassette, sub-family A (ABC1), member 2	
Abca8b	NM_013851.2	ATP-binding cassette, sub-family A (ABC1), member 8,Abca8	ATP-binding cassette, sub-family A (ABC1), member 8b	
Abim2	NM_001177696.1	A1606905,MGI:2140943,expressed sequence A1606905	actin-binding LIM protein 2	
Acaa2	NM_177470.2	0610011L04Rik,A1255831,A1265397,D18Ertd240e, DNA segment, Chr 18, ERATO Doi 240, expressed,MGI:1915593,MGI:2147202,MGI:2147205,RIKEN cDNA 0610011L04 gene,expressed sequence A1255831,expressed sequence A1265397	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacyl-Coenzyme A thiolase)	
Acadb5	NM_025826.4	1300003O09Rik,BB066609,MGI:2142281,RIKEN cDNA 1300003O09 gene,expressed sequence BB066609	acyl-Coenzyme A dehydrogenase, short/branched chain	
Acot7	NM_001146057.1	2410041A17Rik,AU014716,AU015130,AU042212,AW557066,Bach,MGI:2140421,MGI:2140425,MGI:2140481,MGI:2140603,RIKEN cDNA 2410041A17 gene,brain acyl-CoA hydrolase,expressed sequence AU014716,expressed sequence AU015130,expressed sequence AU042212,expressed sequence AW557066	acyl-CoA thioesterase 7	
Acp1	NM_001110239.1	4632432E04Rik,A1427468,Acp-1,LMW-PTP,Lmtp,MGD-MRK-1048,MGD-MRK-1050,MGI:1914786,MGI:2144813,RIKEN cDNA 4632432E04 gene,expressed sequence A1427468	acid phosphatase 1, soluble	
Acp2	NM_007387.2	Acp-2,LAP,MGD-MRK-1049,MGD-MRK-1051	acid phosphatase 2, lysosomal	
Acsi5	NM_027976.2	1700030F05Rik,Fact5,RIKEN cDNA 1700030F05 gene,fatty acid Coenzyme A ligase, long chain 5	acyl-CoA synthetase long-chain family member 5	
Actr3b	NM_001004365.1	ARP11,AU047569,Arp3b,MGI:2141129,actin-related protein 3-beta,expressed sequence AU047569	ARP3 actin-related protein 3B	
Actr6	NM_025914.2	2010200J04Rik,AU044443,Arp6,ArpX,CDA12,MGI:2143768,RIKEN cDNA 2010200J04 gene,expressed sequence AU044443	ARP6 actin-related protein 6	
Acvr1	NM_009612.2	A115505,A1427544,Acvr1k1,Alk-1,Alk1,MGD-MRK-35653,MGI:107192,MGI:2145947,MGI:2145999,activin A receptor type II-like kinase 1,activin receptor-like kinase-1,expressed sequence A115505,expressed sequence A1427544	activin A receptor, type II-like 1	
Add2	NM_001271857.1	2900072M03Rik,MGD-MRK-1109,MGI:1920220,RIKEN cDNA 2900072M03 gene	adducin 2 (beta)	
Add3	NM_013758.4	A1463285,MGI:2147558,MGI:2147811,R75380,expressed sequence A1463285,expressed sequence R75380	adducin 3 (gamma)	
Adhfe1	NM_175236.4	6330565B14Rik,A1043033,MGI:2138150,RIKEN cDNA 6330565B14 gene,expressed sequence A1043033	alcohol dehydrogenase, iron containing, 1	
Adipor2	NM_197985.3	111000114Rik,A1115388,AW554121,D6Ucla1e, DNA segment, Chr 6, University of California at Los Angeles-1, expressed,EST A115388,MGD-MRK-7736,MGI:1889386,MGI:1915715,MGI:2141699,RIKEN cDNA 111000114 gene,expressed sequence AW554121	adiponectin receptor 2	
Adora2a	NM_009630.2	A2AAR,A2a, Rs,A2aR,AA2AR,MGD-MRK-16163	adenosine A2a receptor	
Adpgk	NM_028121.2	2610017G09Rik,C77577,MGI:2143387,RIKEN cDNA 2610017G09 gene,expressed sequence C77577	ADP-dependent glucokinase	
Adprh	NM_007414.3	Arh1	ADP-ribosylarginine hydrolase	
Aff1	NM_001080798.1	9630032B01Rik,AW319193,Af4,MGI:1861996,MGI:2141185,MGI:2442389,Milt2h,RIKEN cDNA 9630032B01 gene,Rob,expressed sequence AW319193,homolog of human MLLT2 unidentified gene,robotic	AF4/FMR2 family, member 1	
Agbl4	NM_030231.3	4930578N11Rik,4931433A01Rik,Ccp6,MGI:1926183,RIKEN cDNA 4930578N11 gene,RIKEN cDNA 4931433A01 gene	ATP/GTP binding protein-like 4	
Agli	NM_001081326.1	1110061O17Rik,9430004C13Rik,9630046L06Rik,A1850929,C77197,MGI:1916080,MGI:2139821,MGI:2140047,MGI:2442716,RIKEN cDNA 1110061O17 gene,RIKEN cDNA 9430004C13 gene,RIKEN cDNA 9630046L06 gene,expressed sequence A1850929,expressed sequence C77197	amylol-1,6-glucosidase, 4-alpha-glucanotransferase	
Ahnak	NM_009643.1	1110004P15Rik,21310047C17Rik,AA589382,AV091586,DY6,MGI:1913645,MGI:1920976,MGI:2147451,MGI:2147673,RIKEN cDNA 1110004P15 gene,RIKEN cDNA 21310047C17 gene,expressed sequence AA589382,expressed sequence AV091586	AHNAK nucleoprotein (desmoyokin)	
Ahsa1	NM_146036.1	Aha1,BC023857,MGC:36589,MGC:36618,cDNA sequence BC023857,p38	AHA1, activator of heat shock protein ATPase 1	
Alcam	NM_009655.1	A1853494,BEN,CD166,DM-GRASP,MGC:27910,MGI:2146511,MuSC,SC1,expressed sequence A1853494	activated leukocyte cell adhesion molecule	
Aldh2	NM_009656.3	Ahd-5,Ahd5,MGD-MRK-1210,MGD-MRK-1217,MGD-MRK-16382,aldehyde dehydrogenase 5	aldehyde dehydrogenase 2, mitochondrial	
Aldh6a1	NM_134042.2	1110038I05Rik,A1314632,MGC:37325,MGI:1888689,MGI:2144782,Mmsdh,RIKEN cDNA 1110038I05 gene,expressed sequence A1314632,methylmalonate-semialdehyde dehydrogenase Atq1,D18Wsu181e, DNA segment, Chr 18, Wayne State University 181, expressed,MGD-MRK-36424,MGD-MRK-37225,MGI:107847,antiquitin	aldehyde dehydrogenase family 6, subfamily A1	
Aldh7a1	NM_001127338.1	AA139417,EST AAI139417,ESTM40,MGI:1334434,TMABA-DH,expressed sequence tag mouse EST 40	aldehyde dehydrogenase family 7, member A1	
Aldh9a1	NM_019993.3	1110018A23Rik,1300013N08Rik,ALPG2,CDGII,MGI:1915849,RIKEN cDNA 1110018A23 gene,RIKEN cDNA 1300013N08 gene	aldehyde dehydrogenase 9, subfamily A1	
Alg2	NM_019998.2	2600011E07Rik,Fam123a,RIKEN cDNA 2600011E07 gene,family with sequence similarity 123, member A	asparagine-linked glycosylation 2 (alpha-1,3-mannosyltransferase)	
Amer2	NM_028113.3	9430069J07Rik,Fam123c,RIKEN cDNA 9430069J07 gene,family with sequence similarity 123, member C	APC membrane recruitment 2	
Amer3	NM_213727.2	C81439,D0Kist1, DNA segment, KIST 1,E230009N18Rik,MGD-MRK-37484,MGI:2148071,MGI:2180948,MGI:2442022,RIKEN cDNA E230009N18 gene,Sh6,Sih6,expressed sequence C81439,mKIAA1071	APC membrane recruitment 3	
Amot	NM_153319.3		angiominin	
Amph	NM_175007.1	MGD-MRK-24459	amphiphysin	
Anapc11	NM_025389.4	1110011I19Rik,MGI:2144704,R75218,RIKEN cDNA 1110011I19 gene,expressed sequence R75218	anaphase promoting complex subunit 11	
Anln	NM_028390.3	1110037A17Rik,2900037I21Rik,C78101,MGI:1915993,MGI:2143393,RIKEN cDNA 1110037A17 gene,RIKEN cDNA 2900037I21 gene,Scraps,expressed sequence C78101	anillin, actin binding protein	
Ano6	NM_175344.4	2900059G15Rik,AA407480,AW554778,F730003B03Rik,MGI:1920265,MGI:2146238,RIKEN cDNA 2900059G15 gene,RIKEN cDNA F730003B03 gene,Tmem16f,expressed sequence AA407480,expressed sequence AW554778,transmembrane protein 16F	anoctamin 6	
Antxr1	NM_054041.2	2310008J16Rik,2810405N18Rik,MGI:1919432,RIKEN cDNA 2310008J16 gene,RIKEN cDNA 2810405N18 gene,Tem8	anthrax toxin receptor 1	
Anxa2	NM_007585.3	36-kDa calelectrin,AW215814,Cal1h,MGD-MRK-1727,MGI:2143302,annexin II,calpactin I heavy chain,expressed sequence AW215814,lipocortin II	annexin A2	
Anxa5	NM_009673.2	Anx5,MGD-MRK-33688,MGI:2140106,R74653,annexin V,expressed sequence R74653	annexin A5	
Ap3b2	NM_021492.3	A1549966,AU042881,MGC:36656,MGI:2141995,MGI:2142157,Naptb,beta3b,expressed sequence A1549966,expressed sequence AU042881,neuronal adhesion protein beta	adaptor-related protein complex 3, beta 2 subunit	
Aph1a	NM_146104.2	6530402N02Rik,MGI:1923476,RIKEN cDNA 6530402N02 gene	aph1 homolog A, gamma secretase subunit	
Apoe	NM_001305844.1	A1255918,MGD-MRK-1376,MGI:2141887,expressed sequence A1255918	apolipoprotein E	
App	NM_007471.2	AL024401,ABeta,Adap,Alzheimer disease amyloid beta protein,Cvap,E030013M08Rik,MGD-MRK-1105,MGD-MRK-1378,MGD-MRK-2255,MGI:2146529,MGI:2442007,RIKEN cDNA E030013M08 gene,appican,betaAPP,cerebrovascular amyloid peptide,expressed sequence AL024401,protease nexin II	amyloid beta (A4) precursor protein	
Appl2	NM_145220.2	Dip3 beta,Dip3b	adaptor protein, phosphotyrosine interaction, PH domain and leucine zipper containing 2	
Arfgap2	NM_001166024.1	2310032E02Rik,RIKEN cDNA 2310032E02 gene,Zfp289,zinc finger protein 289	ADP-ribosylation factor GTPase activating protein 2	1110051M20Rik (NM_001311144)
B230365D05Rik	C76222	Cdc42GAP,MGI:2139453,RIKEN cDNA B230365D05 gene,expressed sequence C76222,p50rhoGAP	Rho GTPase activating protein 1	

Arhgap31	NM_020260.2	5830477L08RIK,AU041750,CD42 GTPase-activating protein,CdGAP,Cdgap,MGI:1923377,MGI:2146575,RIKEN cDNA 5830477L08 gene,expressed sequence AU041750,mKIAA1204	Rho GTPase activating protein 31
Arhgap44	NM_001099288.1	A1840762,AU040829,AW493732,MGI:21442778,MGI:2144545,expressed sequence	Rho GTPase activating protein 44
Arhgap5	NM_009706.2	A1840762,expressed sequence AU040829,expressed sequence AW493732	Rho GTPase activating protein 5
Arhgdib	NM_007486.4	D4,GDP dissociation inhibitor, D4,Gdid4,Ly-GDI,MGD-MRK-18774 4631416L12RIK,8430436L14RIK,AI303572,AW491953,MGI:1918810,MGI:2139660,MGI:2139988,RIKEN cDNA 4631416L12 gene,RIKEN cDNA 8430436L14 gene,expressed sequence	Rho, GDP dissociation inhibitor (GDI) beta
Arhgef26	NM_001081295.1	A1303572,expressed sequence AW491953	Rho guanine nucleotide exchange factor (GEF) 26
Arhgef6	NM_152801.2	1600028C08RIK,1700038I06RIK,4930592P22RIK,MGI:1923183,MGI:1923947,RIKEN cDNA 1600028C08 gene,RIKEN cDNA 1700038I06 gene,RIKEN cDNA 4930592P22 gene,alpha-PIX	Rac/Cdc42 guanine nucleotide exchange factor (GEF) 6
Arhgef9	NM_001033329.2	9630036L12RIK,RIKEN cDNA 9630036L12 gene,collybistin,mKIAA0424	CDC42 guanine nucleotide exchange factor (GEF) 9
Armcx5	NM_001009575.5	AW556585,expressed sequence AW556585 AA408064,AA408534,AA571392,AF007010,AW208418,EST AF007010,L72,MGI:1354729,MGI:2140731,MGI:2140737,MGI:2141167,MGI:2145918,SOP2Hs,expressed sequence AA408064,expressed sequence AA408534,expressed sequence AA571392,expressed sequence AW208418,p41-ARC	armadillo repeat containing, X-linked 5
Arcp1b	NM_023142.2	3322401A10RIK,B8077577,BNIP-H,MGD-MRK-10693,MGD-MRK-11529,MGI:2143893,MGI:2442176,MGI:96640,RIKEN cDNA 3322401A10 gene,expressed sequence BB077577,hes,hesitant,ji,jittery	actin related protein 2/3 complex, subunit 1B
Atcay	NM_178662.3	Barkor,D1Ert1d114e,D1Ert4d36e,DNA segment, Chr 14, ERATO Doi 114, expressed,DNA segment, Chr 14, ERATO Doi 436, expressed,MGI:1098807	ataxia, cerebellar, Cayman type
Atg14	NM_172599.4	APG4 (ATG4) autophagy-related homolog C (S. cerevisiae),AUT-like 1, cysteine endopeptidase (S. cerevisiae),Agg4-C,Agg4c,Aut1,autophagin 3	autophagy related 14
Atg4c	NM_001145967.1	4633402C03RIK,5730596K20RIK,AI465397,AW228836,MGI:1918076,MGI:2147563,MGI:2147723,RIKEN cDNA 4633402C03 gene,RIKEN cDNA 5730596K20 gene,expressed sequence AI465397,expressed sequence AW228836	autophagy related 4C, cysteine peptidase
Ati3	NM_146091.4	Atpa-2,MGC:27631,MGC:38713,MGC:38914,MGC:39036,MGD-MRK-1459,MGD-MRK-1471,Na, K-ATPase alpha 2	atlastin GTPase 3
Atp1a3	NM_144921.1	2810442I22RIK,E130111D10RIK,MGD-MRK-26093,MGI:1915222,MGI:2444822,PMCA1,RIKEN cDNA 2810442I22 gene,RIKEN cDNA E130111D10 gene D6Abb2e,DNA segment, Chr 6, Abbott 2e,Geno300,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 waddler,dhw,jogg,joggle,tommy,wms,wri,wriggle,wrinkle mouse Sagami	ATPase, Na ⁺ /K ⁺ transporting, alpha 3 polypeptide
Atp2b1	NM_026482.1	A1035633,AL022851,AL023067,ATPase, mitochondrial,Atpm,D1Ert4d206e,DNA segment, Chr 18, ERATO Doi 206, expressed,MGD-MRK-1468,MGD-MRK-1477,MGI:1098570,MGI:1891402,MGI:2147192,MGI:2147287,MGI:2147288,Mom2,expressed sequence A1035633,expressed sequence AL022851,expressed sequence AL023067,modifier of Min 2	ATPase, Ca ⁺⁺ transporting, plasma membrane 1
Atp2b2	NM_001036684.2	A1035633,AL022851,AL023067,ATPase, mitochondrial,Atpm,D1Ert4d206e,DNA segment, Chr 18, ERATO Doi 206, expressed,MGD-MRK-1468,MGD-MRK-1477,MGI:1098570,MGI:1891402,MGI:2147192,MGI:2147287,MGI:2147288,Mom2,expressed sequence A1035633,expressed sequence AL022851,expressed sequence AL023067,modifier of Min 2	ATPase, Ca ⁺⁺ transporting, plasma membrane 2
Atp5a1	NM_007505.2	0610009D10RIK,RIKEN cDNA 0610009D10 gene	ATP synthase, H ⁺ transporting, mitochondrial F1 complex, alpha subunit 1
Atp5h	NM_027862.1	0610009D10RIK,RIKEN cDNA 0610009D10 gene	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit D
Atp5j2	NM_020582.2	1110019H14RIK,MGI:1913384,RIKEN cDNA 1110019H14 gene,hypothetical protein, clone:2-31 2010107E04RIK,9430003I03RIK,AU043134,AV124504,MGI:1924811,MGI:2144965,MGI:2144982,RIKEN cDNA 2010107E04 gene,RIKEN cDNA 9430003I03 gene,expressed sequence AU043134,expressed sequence AV124504	ATP synthase, H ⁺ transporting, mitochondrial F0 complex, subunit F2
Atp5mpl	NM_027360.2	(P)RR,5730403E06RIK,ATPase, H ⁺ transporting, lysosomal interacting protein 2,Atp6ip2,M8-9,RIKEN cDNA 5730403E06 gene,renin/prorenin receptor	ATP synthase membrane subunit 6.8PL
Atp6a2	NM_027439.4	2310024H13RIK,ATPase, H ⁺ transporting, lysosomal (vacuolar proton pump),Atp6f,MGI:1913620,RIKEN cDNA 2310024H13 gene,VMA16	ATPase, H ⁺ transporting, lysosomal accessory protein 2
Atp6v0b	NM_033617.3	1700025B18RIK,MGI:2146327,RIKEN cDNA 1700025B18 gene,U13839,expressed sequence U13839	ATPase, H ⁺ transporting, lysosomal V0 subunit B
Atp6v1c1	NM_025494.3	1110004G16RIK,RIKEN cDNA 1110004G16 gene	ATPase, H ⁺ transporting, lysosomal V1 subunit C1
Atp6v1f	NM_025381.2	A1415030,lb,MGD-MRK-15403,MGD-MRK-15435,MGI:2145631,MGI:2667527,MGI:98951,agil,agitans-like,expressed sequence A1415030,vestibulomotor degeneration,vmd,wabblcr-lethal,wl	ATPase, H ⁺ transporting, lysosomal V1 subunit F
Atp8a2	NM_015803.2	A1323647,Ark,MGD-MRK-15343,MGI:2141908,MGI:98896,Tyro7,Ufo,expressed sequence A1323647,ufo oncogene homolog	ATPase, aminophospholipid transporter-like, class I, type 8A, member 2
Axl	NM_009465.3	Ly-m11,MGD-MRK-12010,MGD-MRK-1492,beta 2 microglobulin,beta2-m,lymphocyte antigen m11	AXL receptor tyrosine kinase
B2m	NM_009735.3	2610042A13RIK,BC016230,MGC:36682,MGI:1922077,MGI:2385854,RIKEN cDNA 2610042A13 gene,cDNA sequence BC016230	beta-2 microglobulin
Bag2	NM_145392.2	2610042A13RIK,BC016230,MGC:36682,MGI:1922077,MGI:2385854,RIKEN cDNA 2610042A13 gene,cDNA sequence BC016230	BCL2-associated athanogene 2
Bag3	NM_013863.4	AA407278,Bcl-2-interacting death suppressor,Bis,MGI:2141804,expressed sequence AA407278 5530401J07RIK,5730403D03RIK,MGI:1921753,RIKEN cDNA 5530401J07 gene,RIKEN cDNA 5730403D03 gene	BCL2-associated athanogene 3
Bbx	NM_027444.1	A1131758,AND-34,MGI:2139634,expressed sequence A1131758	bobby sox HMG box containing
Bcar3	NM_013867.2	AW986256,Bcl-2,C430015F12RIK,D630044D05RIK,D830018M01RIK,MGD-MRK-1524,MGD-MRK-1526,MGI:2138629,MGI:2442315,MGI:2444619,MGI:2444682,RIKEN cDNA C430015F12 gene,RIKEN cDNA D630044D05 gene,RIKEN cDNA D830018M01 gene,expressed sequence AW986256	breast cancer anti-estrogen resistance 3
Bcl2	NM_009741.3	Bcl(XL,Bcl-XL,Bcl-Xs,BclX,MGD-MRK-1527,bcl-x	B cell leukemia/lymphoma 2
Bcl2l1	NM_009743.4	B cell leukemia/lymphoma 5,Bcl5,MGD-MRK-35648,MGI:1277984	BCL2-like 1
Bcl6	NM_009744.3	2310032J02RIK,3-hydroxybutyrate dehydrogenase (heart, mitochondrial),A1327223,Bdh,MGI:2146421,RIKEN cDNA 2310032J02 gene,expressed sequence A1327223	B cell leukemia/lymphoma 6
Bdh1	NM_001122683.1	AA407839,AU018692,MGI:2147819,MGI:2147956,Rex3,expressed sequence AA407839,expressed sequence AU018692,reduced expression 3	3-hydroxybutyrate dehydrogenase, type 1
Bex1	NM_009052.2	Amphiphysin 2,AmphI,MGD-MRK-37129,MGI:700008,amphiphysin-like	brain expressed X-linked 1
Bin1	NM_001083334.1	A1385617,AV355320,Acvrlk6,Alk6,BMPRII,CFK-43a,MGD-MRK-35652,MGI:2139685,MGI:2139946,activin A receptor type II-like kinase 6,expressed sequence A1385617,expressed sequence AV355320	bridging integrator 1
Bmpr1b	NM_007560.3	A1847676,AU021146,MGI:2138345,MGI:2138464,expressed sequence A1847676,expressed sequence AU021146,matador,mtd 1810056020RIK,RIKEN cDNA 1810056020 gene	bone morphogenetic protein receptor, type 1B
Bok	NM_016778.2	A1847676,AU021146,MGI:2138345,MGI:2138464,expressed sequence A1847676,expressed sequence AU021146,matador,mtd 1810056020RIK,RIKEN cDNA 1810056020 gene	BCL2-related ovarian killer
Bola3	NM_175277.4	A1255395,C1q,MGD-MRK-1696,MGI:2140213,expressed sequence A1255395	bola-like 3 (E. coli)
C130074G19RIK	NM_178692.3	MGD-MRK-1697	RIKEN cDNA C130074G19 gene
C1Iqa	NM_007572.2	A1385742,C1Iq,MGD-MRK-1698,MGI:2140252,complement component 1, q subcomponent, c polypeptide,complement component 1, q subcomponent, gamma polypeptide,expressed sequence A1385742	complement component 1, q subcomponent, alpha polypeptide
C1Iqb	NM_009777.2	1190007F10RIK,AI852726,B430218L07RIK,MGI:1916110,MGI:2140392,RIKEN cDNA 1190007F10 gene,RIKEN cDNA B430218L07 gene,Vwcd1,expressed sequence AI852726,von Willebrand factor type A and cache domain containing 1	complement component 1, q subcomponent, beta polypeptide
C1Iqc	NM_007574.2	1190007F10RIK,AI852726,B430218L07RIK,MGI:1916110,MGI:2140392,RIKEN cDNA 1190007F10 gene,RIKEN cDNA B430218L07 gene,Vwcd1,expressed sequence AI852726,von Willebrand factor type A and cache domain containing 1	complement component 1, q subcomponent, C chain
Cachd1	NM_198037.1	TARP gamma 8	cache domain containing 1
Cacng8	NM_133190.1	4833423D12RIK,AI195384,AV071549,AW536160,C920027I18RIK,EST AI195384,MGC:30319,MGD-MRK-1733,MGI:1353560,MGI:1921163,MGI:2141616,MGI:2141689,MGI:2444081,RIKEN cDNA 4833423D12 gene,RIKEN cDNA C920027I18 gene,expressed sequence AV071549,expressed sequence AW536160	calcium channel, voltage-dependent, gamma subunit 8
Cald1	NM_145575.2	MGD-MRK-24125,MGI:2142387,R75142,expressed sequence R75142	caldesmon 1
Calm3	NM_007590.3	A430110E23RIK,AI666733,Ca2+/calmodulin-dependent protein kinase type IV/Gr,CaMKIV,CaMKIV/Gr,D18Bwg0362e,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,expressed sequence AI666733	calmodulin 3
Camk4	NM_009793.3	KIAA0909 hypothetical protein (human),Kiaa0909-hp,mKIAA0909	calcium/calmodulin-dependent protein kinase IV
Camta2	NM_001190376.1	1110053K06RIK,AW208808,Cappa2,MGD-MRK-33914,MGI:1924163,MGI:2141661,RIKEN cDNA 1110053K06 gene,capping protein alpha 2,expressed sequence AW208808	calmodulin binding transcription activator 2
Capza2	NM_007604.2	1110053K06 gene,capping protein alpha 2,expressed sequence AW208808	capping protein (actin filament) muscle Z-line, alpha 2

Car10	NM_028296.3	2700029L05RIK,BB085816,CA-RP X,MGI:2144598,RIKEN cDNA 2700029L05 gene,expressed sequence BB085816	carbonic anhydrase 10
Casc4	NM_177054.5	D130060C09RIK,RIKEN cDNA D130060C09 gene	cancer susceptibility candidate 4
Cbln1	NM_019626.3	A1323299,MGD-MRK-1784,MGI:2142504,expressed sequence A1323299	cerebellin 1 precursor protein
Ccdc115	NM_027159.2	2310061I09RIK,Ccp1,RIKEN cDNA 2310061I09 gene	coiled-coil domain containing 115
		1110004K02RIK,1700026003RIK,AU018638,AU042822,AV173073,BC018601,MGC:30640,MGI:1914941,MGI:1915705,MGI:2144434,MGI:2144462,RIKEN cDNA 1110004K02 gene,RIKEN cDNA 1700026003 gene,cDNA sequence BC018601,expressed sequence AU018638,expressed sequence AU042822,expressed sequence AV173073	coiled-coil domain containing 117
Cdc117	NM_134033.2	AL024092,Cctg,MGD-MRK-16724,MGD-MRK-27071,MGI:2144350,Tcp1-rs3,Tric-P5,expressed sequence AL024092,1-complex protein 1, related sequence 3	chaperonin containing Tcp1, subunit 3 (gamma)
Cct3	NM_009836.1	AL024079,C78928,METS-1,MGI:1194922,MGI:2146959,MGI:2147127,Mets1,expressed sequence AL024079,expressed sequence C78928,mesenchyme to epithelium transition protein, SH3 domains	CD2-associated protein
Cd2ap	NM_009847.3	9130415E20RIK,AA407862,AI848868,AW108519,B430305P08RIK,IAP,Itpg,MGD-MRK-11496,MGI:1918837,MGI:1925789,MGI:2146333,MGI:2146503,MGI:2146621,RIKEN cDNA 9130415E20 gene,RIKEN cDNA B430305P08 gene,expressed sequence AA407862,expressed sequence AI848868,expressed sequence AW108519,integrin-associated protein	CD47 antigen (Rh-related antigen, integrin-associated signal transducer)
Cd47	NM_010581.3	C75951,ME491,MGD-MRK-16307,MGI:2147391,Tspan30,expressed sequence C75951	CD63 antigen
Cd63	NM_001042580.1		CD74 antigen (invariant polypeptide of major histocompatibility complex, class II antigen-associated)
Cd74	NM_001042605.1	CLIP,Ia-associated invariant chain,Ii,MGD-MRK-11344	CD81 antigen
Cd81	NM_133655.2	MGD-MRK-14716,MGD-MRK-14717,MGI:98485,Tapa-1,Tapa1,Tspan28,target of antiproliferative antibody 1	
		1810058K22RIK,AA980734,Borg5,CEP1,MGI:1917061,MGI:2145936,MSE55,RIKEN cDNA	
Cdc42ep1	NM_027219.3	1810058K22 gene,expressed sequence AA980734	CDC42 effector protein (Rho GTPase binding) 1
Cdc42ep4	NM_001163346.1	1500041M20RIK,Borg4,CEP4,MGI:1919259,RIKEN cDNA 1500041M20 gene	CDC42 effector protein (Rho GTPase binding) 4
		1300002M12RIK,AW558204,MGI:1914138,MGI:2140011,RIKEN cDNA 1300002M12 gene,SCP1,Spec1,expressed sequence AW558204,small protein effector 1 of Cdc42	
Cdc42se1	NM_001038708.2		CDC42 small effector 1
Cdh20	NM_011800.4		cadherin 20
Cdh22	NM_174988.3		cadherin 22
Cdk14	NM_011074.2	PFTAIRE protein kinase 1,Ptk1,mKIAA0834	cyclin-dependent kinase 14
		A682070,MGD-MRK-13198,MGI:2138128,PCTAIRE-motif protein kinase 3,Pctk3,expressed sequence A682070	
Cdk18	NM_008795.2	BC038161,MGI:2448589,Stk9,cDNA sequence BC038161,serine/threonine kinase 9	cyclin-dependent kinase 18
Cdk15	NM_001024624.2	0610013117RIK,AI225939,LAG1 homolog, ceramide synthase 2,Lass2,MGI:2139649,RIKEN cDNA 0610013117 gene,Trh3,expressed sequence AI225939	cyclin-dependent kinase-like 5
		2310024N18RIK,A430105C05RIK,AI646576,AU021929,Cash,Casper,Flig,MGI:1096876,MGI:1916820,MGI:1925024,MGI:2138307,MGI:2138466,RIKEN cDNA 2310024N18 gene,RIKEN cDNA A430105C05 gene,c-Flip,caspase homolog,expressed sequence AI646576,expressed sequence AU021929	
Cers2	NM_029789.1		ceramide synthase 2
		AA960172,AL023996,AW045841,MGI:2146527,MGI:2146608,expressed sequence AA960172,expressed sequence AL023996,expressed sequence AW045841	
Cggbp1	NM_178647.2	MGD-MRK-14309,MGD-MRK-1970,Sgp-1,secretogranin 1,secretogranin 1	CGG triplet repeat binding protein 1
Chgb	NM_007694.4	061000719RIK,0710001E19RIK,1700112L09RIK,2900046I01RIK,AI413815,ARHGAP2,MGI:1915574,MGI:1923974,MGI:1925952,MGI:2138925,RIKEN cDNA 061000719 gene,RIKEN cDNA 0710001E19 gene,RIKEN cDNA 1700112L09 gene,RIKEN cDNA 2900046I01 gene,alpha1 chimaerin,alpha2 chimaerin,expressed sequence AI413815	chromogranin B
		1110001O09RIK,AA409036,Chp-1,MGI:2142930,RIKEN cDNA 1110001O09 gene,expressed sequence AA409036,morgana	
Chn1	NM_001113246.2	2410152E03RIK,2810406L04RIK,MGI:1917448,MGI:1924060,RIKEN cDNA 2410152E03 gene,RIKEN cDNA 2810406L04 gene,YCL1	chimerin 1
Chordc1	NM_025844.2	AW495047,Chrm-1,M1,M1R,MGD-MRK-1974,MGD-MRK-1978,MGI:3528183,expressed sequence AW495047,muscarinic acetylcholine receptor 1	cysteine and histidine-rich domain (CHORD)-containing, zinc-binding protein 1
Chrac1	NM_053068.3	AW495047,Chrm-1,M1,M1R,MGD-MRK-1974,MGD-MRK-1978,MGI:3528183,expressed sequence AW495047,muscarinic acetylcholine receptor 1	chromatin accessibility complex 1
Chrm1	NM_007698.3	Chrm-3,M3R,MGD-MRK-1976,MGD-MRK-1980,muscarinic acetylcholine receptor 3	cholinergic receptor, muscarinic 1, CNS
Chrm3	NM_033269.2	Acrb-2,Acrb2,C030030P04RIK,MGD-MRK-1064,MGD-MRK-1066,MGI:2442758,RIKEN cDNA C030030P04 gene,[b]2-nAChR,acetylcholine receptor beta 2 neural	cholinergic receptor, muscarinic 3, cardiac
Chrb2	NM_009602.4	Cirp,MGI:2143957,R74941,expressed sequence R74941	cholinergic receptor, nicotinic, beta polypeptide 2 (neuronal)
Cirbp	NM_007705.2	6720456I16RIK,Cldn10a,Cldn10b,D14Ert728e,DNA segment, Chr 14, ERATO Doi 728, expressed,MGI:1289167,MGI:1925138,MGI:3696570,RIKEN cDNA 6720456I16 gene,claudin 10A,claudin 10B	cold inducible RNA binding protein
Cldn10	NM_021386.4	MGD-MRK-35386,Osp,Otm,oligodendrocyte specific protein,oligodendrocyte transmembrane protein,oligodendrocyte-specific protein	claudin 10
Cldn11	NM_008770.3	AI854493,MGI:1095399,MGI:2146515,Tmuvf,expressed sequence AI854493,transmembrane protein deleted in VCF5	claudin 11
Cldn5	NM_013805.4		claudin 5
Clic1	NM_033444.2	Ctcp,G6	chloride intracellular channel 1
		9330188N17RIK,AI428889,AI788815,MGI:2144820,MGI:2144884,RIKEN cDNA 9330188N17 gene,expressed sequence AI428889,expressed sequence AI788815	
Clnm	NR_104435.1	CSTN3,cst-3,alcadein-beta,mKIAA0726	calmin
Clstn3	NM_153508.4	1500005P16RIK,2900005H21RIK,Chf5f5,MGI:1914522,MGI:1922949,RIKEN cDNA 1500005P16 gene,RIKEN cDNA 2900005H21 gene,chemokine-like factor super family 5	calyntenin 3
Cmnt5	NM_026066.2	2810051A14RIK,AA536733,Chf5f6,MGI:1914463,MGI:2142952,RIKEN cDNA 2810051A14 gene,chemokine-like factor super family 6,expressed sequence AA536733	CKLF-like MARVEL transmembrane domain containing 5
Cmnt6	NM_026036.3	Cnk2,Ksr2,connector enhancer of KSR2,mKIAA0902	CKLF-like MARVEL transmembrane domain containing 6
Cnksr2	NM_177751.2	1600014M03RIK,C85854,Calpo3,MGI:2140096,RIKEN cDNA 1600014M03 gene,expressed sequence C85854	connector enhancer of kinase suppressor of Ras 2
Cnn3	NM_028044.2		calponin 3, acidic
		CNPass,Cnp-1,Cnp1,MGD-MRK-2039,MGD-MRK-2041,cyclic nucleotide phosphodiesterase 1 D130012K04RIK,MGD-MRK-25949,MGI:2443768,RIKEN cDNA D130012K04 gene,TAG-1,TAG1,Tax,axonin,transiently-expressed axonal glycoprotein	
Cnp	NM_009923.2	Axcam,BIG-2A,axonal-associated cell adhesion molecule	2',3'-cyclic nucleotide 3' phosphodiesterase
Cntn2	NM_177129.5		contactin 2
Cntn4	NM_001109751.1		contactin 4
		AI841080,Caspr,MGD-MRK-14405,MGI:2144280,MGI:98298,NCPI1,Nrxn4,expressed sequence AI841080,neurexin 4 (contactin associated protein),p190,paranodin,shambling,shm	
Cntnap1	NM_016782.2	1810033A19RIK,Ccdc56,D11Ert99e,DNA segment, Chr 11, ERATO Doi 99, expressed,MGI:1915463,RIKEN cDNA 1810033A19 gene,coiled-coil domain containing 56	contactin associated protein-like 1
Coa3	NM_026618.2	AI427499,Col9a-2,MGD-MRK-2084,MGD-MRK-2086,MGI:2140269,expressed sequence AI427499,procollagen type IX, alpha 2	cytochrome C oxidase assembly factor 3
Col9a2	NM_007741.2	AV006866,MGI:2139235,expressed sequence AV006866	collagen, type IX, alpha 2
Col9a3	NM_009936.2	1110039H05RIK,RIKEN cDNA 1110039H05 gene	collagen, type IX, alpha 3
Comm4	NM_025417.2		COMM domain containing 4
Cops3	NM_011991.1	COP9 complex S3,Csn3,Sgn3	COP9 signalosome subunit 3
		AW208976,COP9 complex S4,D5Ert774e,DNA segment, Chr 5, ERATO Doi 774, expressed,MGI:1289319,MGI:2141171,expressed sequence AW208976	
Cops4	NM_012001.2	D2Ert97e,DNA segment, Chr 2, ERATO Doi 97, expressed,EST-MNCb4625	COP9 signalosome subunit 4
Coq4	NM_178693.4	9030208C03RIK,AI563590,IR10,MGI:2140332,MGI:2443441,RIKEN cDNA 9030208C03 gene,coronin 4,expressed sequence AI563590	coenzyme Q4
Coro2a	NM_001164804.1	MGD-MRK-26051	coronin, actin binding protein 2A
Cox6c	NM_053071.2	COX7AR,COX7RP,EB1,MGD-MRK-33697,SIG-81,SIG81,Silg81,silica-induced gene 81	cytochrome c oxidase subunit 6C
Cox7a2l	NM_001159529.1	921-S,MGD-MRK-27090	cytochrome c oxidase subunit 7A2 like
Cplx1	NM_007756.3	3322401K10RIK,MGC:30751,MGC:37787,MGI:1913927,RIKEN cDNA 3322401K10 gene	complexin 1
Cpne2	NM_153507.2		copine II
		CPT1,Cpt1,L-CPT I,MGD-MRK-2118,MGI:2147452,MGI:2147463,carnitine palmitoyltransferase 1 C87615,CSF-1,Csfm,M-CSF,MGD-MRK-13034,MGD-MRK-2191,MGI:2140102,MGI:88534,colony stimulating factor, macrophage,colony-stimulating factor-1,expressed sequence	
Cpt1a	NM_013495.1	C87615,op,osteopetrosis	carnitine palmitoyltransferase 1a, liver
		A330102K23RIK,CSRNIP-3,RIKEN cDNA A330102K23 gene,mbu1	
Csf1	NM_001113530.1	2010010M04RIK,AA517462,AI988031,Catna1,MGD-MRK-1773,MGI:1913796,MGI:2147175,MGI:2147284,RIKEN cDNA 2010010M04 gene,alpha E catenin,alpha[E]-catenin,catenin alpha 1,expressed sequence AA517462,expressed sequence AI988031	colony stimulating factor 1 (macrophage)
Csrnp3	NM_178634.2		cysteine-serine-rich nuclear protein 3
		Catnd2,Nprap,catenin (cadherin-associated protein), delta 2 (neural plakophilin-related arm-repeat protein),neural plakophilin-related arm-repeat protein,neurojugin	
Ctnna1	NM_009818.1		catenin (cadherin associated protein), alpha 1
Ctnnd2	NM_008729.2		catenin (cadherin associated protein), delta 2

Ctss	NM_021281.2	Cat S, MGD-MRK-35807	cathepsin S
Cuedc1	NM_198013.3	A1841487,C330016016RIK,RIKEN cDNA C330016016 gene,expressed sequence A1841487 MGI:3526724,b558,cytochrome beta-558,neuroscience mutagenesis facility 333,nmf333,p22	CUE domain containing 1
Cyba	NM_007806.3	150000401RIK,6430511D02RIK,AA930218,AU022376,MGI:1923743,MGI:2144048,MGI:2144412,PI r121,RIKEN cDNA 150000401 gene,RIKEN cDNA 6430511D02 gene,expressed sequence AA930218,expressed sequence AU022376,mKIAA1168	cytochrome b-245, alpha polypeptide
Cyfp2	NM_00125459.1	1300013A03RIK,Cyp27,MGD-MRK-2311,MGI:1922018,RIKEN cDNA 1300013A03 gene,cholesterol 27 hydroxylase,cytochrome P450, 27	cytoplasmic FMR1 interacting protein 2
Cyp27a1	NM_024264.3	9630056G07RIK,G2,MGI:1924342,MGI:2442414,RIKEN cDNA 9630056G07 gene 2310016D11RIK,A1843643,AWS57870,MGI:2146931,MGI:2147093,RIKEN cDNA 2310016D11	cytochrome P450, family 27, subfamily a, polypeptide 1 RIKEN cDNA D430041D05 gene
D430041D05RIK	NM_001033347.2	9630056G07RIK,G2,MGI:1924342,MGI:2442414,RIKEN cDNA 9630056G07 gene 2310016D11RIK,A1843643,AWS57870,MGI:2146931,MGI:2147093,RIKEN cDNA 2310016D11	cytochrome P450, family 27, subfamily a, polypeptide 1 RIKEN cDNA D430041D05 gene
Daam2	NM_001008231.2	gene,expressed sequence A1843643,expressed sequence AWS57870 D9Wsu13e,DG,DNA segment, Chr 9, Wayne State University 13, expressed,MGD-MRK- 18689,MGD-MRK-34097,alpha-dystroglycan,beta-dystroglycan,dystrophin associated	dishevelled associated activator of morphogenesis 2
Dag1	NM_010017.3	glycoprotein 1	dystroglycan 1
Dars	NM_145507.2	5730439G15RIK,RIKEN cDNA 5730439G15 gene 1110017A21RIK,290002211ORIK,AU041050,AW048677,D2Bwg0891e,DNA segment, Chr 2, Brigham & Women's Genetics 0891 expressed,MGD-MRK- 34256,MGI:1915890,MGI:1920106,MGI:2139210,MGI:2139278,MGI:2152853,RIKEN cDNA 1110017A21 gene,RIKEN cDNA 2900022110 gene,expressed sequence AU041050,expressed sequence AW048677	aspartyl-tRNA synthetase
Dbndd2	NM_001048228.1	AA408877,AA433120,AA792214,AU018973,C76055,D1Dau35e,D1Ucla4,DNA segment, Chr 1, DA Underhill 35, expressed,DNA segment, Chr 1, University of California at Los Angeles 4,EST AA792214,H326,MGD-MRK- 5719,MGI:1347003,MGI:1888988,MGI:2138088,MGI:2138099,MGI:2138429,MGI:2138650,WD repeat domain 42A,Wdr42a,expressed sequence AA408877,expressed sequence AA433120,expressed sequence AU018973,expressed sequence C76055 2900024F02RIK,AA958953,AJ324246,MGI:2145174,MGI:2145211,RIKEN cDNA 2900024F02 gene,expressed sequence AA958953,expressed sequence AJ324246	dysbindin (dystrobrevin binding protein 1) domain containing 2
Dcaf8	NM_153555.2	1810047H21RIK,AW319508,AWS56242,B430002H05RIK,MGI:1925772,MGI:2144523,MGI:2144573 ,RIKEN cDNA 1810047H21 gene,RIKEN cDNA B430002H05 gene,SF3b125,expressed sequence AW319508,expressed sequence AWS56242	DBD1 and CUL4 associated factor 8
Ddx41	NM_134059.2	2900024F02RIK,AA958953,AJ324246,MGI:2145174,MGI:2145211,RIKEN cDNA 2900024F02 gene,expressed sequence AA958953,expressed sequence AJ324246	DEAD (Asp-Glu-Ala-Asp) box polypeptide 41
Ddx42	NM_028074.4	1810047H21RIK,AW319508,AWS56242,B430002H05RIK,MGI:1925772,MGI:2144523,MGI:2144573 ,RIKEN cDNA 1810047H21 gene,RIKEN cDNA B430002H05 gene,SF3b125,expressed sequence AW319508,expressed sequence AWS56242	DEAD (Asp-Glu-Ala-Asp) box polypeptide 42
Decr1	NM_026172.3	1200012F07RIK,Decr,Nadph,RIKEN cDNA 1200012F07 gene	2,4-dienoyl CoA reductase 1, mitochondrial
Dhrs11	NM_177564.5	BC022224,MGC:18716,cDNA sequence BC022224	dehydrogenase/reductase (SDR family) member 11
Dido1	NM_011805.2	6720461J16RIK,D130048F08RIK,DIO-1,Datf1,MGI:2443624,MGI:2444396,RIKEN cDNA 6720461J16 gene,RIKEN cDNA D130048F08 gene,death associated transcription factor 1,dido,mKIAA0333 A1317237,A1854602,MGI:2146097,expressed sequence A1317237,expressed sequence A1854602,mKIAA11463	death inducer-oblierator 1
Dip2b	NM_172819.3	2900052J15RIK,A1414999,MGI:2145227,RIKEN cDNA 2900052J15 gene,expressed sequence A1414999	disco interacting protein 2 homolog B
Diras2	NM_001024474.2	9330153B10RIK,A630054M16RIK,Jr4,Jr5,MGI:2441818,R75174,RIKEN cDNA 9330153B10 gene,RIKEN cDNA A630054M16 gene,Zi23,Zizimin3,expressed sequence R75174,mKIAA0694	DIRAS family, GTP-binding RAS-like 2
Dlg3	NM_001177778.1	Dlgh3,SAP102,disks, large homolog 3 (Drosophila),mKIAA1232 4933422O14RIK,A1845682,A1848168,BB075781,D17Bwg0511e,DAP-1 beta,DNA segment, Chr 17, Brigham & Women's Genetics 0511 expressed,GKAP/SAPAP,GAP,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	discs large MAGUK scaffold protein 3
Dlgap1	NM_027712.3	1500017M13RIK,2010306G19RIK,DNJ3,HIRP4,MGI:1917245,MGI:1923592,PRO3015,RIKEN cDNA 1500017M13 gene,RIKEN cDNA 2010306G19 gene,mDj3	DLG associated protein 1
Dnaja2	NM_019794.4	1700029A20RIK,2010306G19RIK,5730460G06RIK,MGI:1917260,MGI:1923269,RIKEN cDNA 1700029A20 gene,RIKEN cDNA 2010306G19 gene,RIKEN cDNA 5730460G06 gene	Dnaj heat shock protein family (Hsp40) member A2
Dnajb4	NM_027287.3	1700029A20RIK,2010306G19RIK,5730460G06RIK,MGI:1917260,MGI:1923269,RIKEN cDNA 1700029A20 gene,RIKEN cDNA 2010306G19 gene,RIKEN cDNA 5730460G06 gene	Dnaj heat shock protein family (Hsp40) member B4
Dnajb6	NM_011847.4	Mj,r,mDj4	Dnaj heat shock protein family (Hsp40) member B6
Dnajc9	NM_134081.4	5330419I01RIK,AU020082,MGI:2145734,RIKEN cDNA 5330419I01 gene,expressed sequence AU020082	Dnaj heat shock protein family (Hsp40) member C9
Dnm1	NM_010065.2	A1838169,Ftf1,MGD-MRK-35851,MGI:2139061,MGI:3027061,expressed sequence A1838169,fitful	dynamin 1
Dock10	NM_175291.3	9330153B10RIK,A630054M16RIK,Jr4,Jr5,MGI:2441818,R75174,RIKEN cDNA 9330153B10 gene,RIKEN cDNA A630054M16 gene,Zi23,Zizimin3,expressed sequence R75174,mKIAA0694	dedicator of cytokinesis 10
Dock3	NM_153413.2	Moca,PBP B130005I07RIK,BC035275,D9Ert809e,DNA segment, Chr 9, ERATO Doi 809, expressed,Dopey1,MGI:2444370,MGI:2449769,RIKEN cDNA B130005I07 gene,cDNA sequence BC035275,dopey family member 1	dedicator of cyto-kinesis 3
Dop1a	NM_177208.3	0610006H08RIK,Hars2,RIKEN cDNA 0610006H08 gene,histidyl tRNA synthetase 2	DOP1 leucine zipper like protein A
Dtd1	NM_025314.3	2210407P21RIK,87K protein,A0,Dtn,MGD-MRK-33723,MGI:1915272,RIKEN cDNA 2210407P21 gene,a-DB-1,adbn,alpha-dystrobrevin,dystrobrevin	D-tyrosyl-tRNA deacylase 1
Dtna	NM_010087.3	4933404O11RIK,CGI-60,Dzic,LiC3,MGC:40646,MGC:7211,RIKEN cDNA 4933404O11 gene,dynein 2 light intermediate chain,mD2LIC	dystrobrevin alpha
Dync2i11	NM_172256.1	Del-1,Del1,MGI:2655637,developmental endothelial locus-1	dynein cytoplasmic 2 light intermediate chain 1
Efil3	NM_001037987.3	4732418C07RIK,RIKEN cDNA 4732418C07 gene	EGF-like repeats and discoidin I-like domains 3
Efcab14	NM_172698.2	4732418C07RIK,RIKEN cDNA 4732418C07 gene	EF-hand calcium binding domain 14
Efemp2	NM_001164352.1	0610011K11RIK,Fbln4,MBP1,MGI:1922058,RIKEN cDNA 0610011K11 gene,fibulin 4, fibulin-4 4931430I01RIK,AH452351,MGI:2138258,PP3051,RIKEN cDNA 4931430I01 gene,expressed sequence A1452351,mitocalcin	epidermal growth factor-containing fibulin-like extracellular matrix protein 2
Efh1	NM_028889.2	sequence A1452351,mitocalcin	EF hand domain containing 1
Ehd3	NM_020578.3	Ehd2	EH-domain containing 3
Elov1	NM_019422.2	AA407424,BB151133,MGI:2140119,MGI:2140640,Ssc1,expressed sequence AA407424,expressed sequence BB151133	elongation of very long chain fatty acids (FEN1/Elo2, SUR4/Elo3, yeast)-like 1
Elov7	NM_029001.4	9130013K24RIK,A1840082,MGI:2145289,RIKEN cDNA 9130013K24 gene,expressed sequence A1840082	ELOVL family member 7, elongation of long chain fatty acids (yeast)
Endod1	NM_028013.1	2210414F18RIK,2310067E08RIK,C85344,MGI:1917399,MGI:2143423,RIKEN cDNA 2210414F18 gene,RIKEN cDNA 2310067E08 gene,expressed sequence C85344	endonuclease domain containing 1
Eno2	NM_013509.2	A1837106,D6Ert8375e,DNA segment, Chr 6, ERATO Doi 375, expressed,Eno-2,MGD-MRK- 9504,MGD-MRK-9507,MGI:1196312,MGI:2141477,NSE,expressed sequence A1837106	enolase 2, gamma neuronal
Enpp2	NM_001136077.2	ATX,Autotaxin,Npps2,PD-lalpha,Pdnp2,phosphodiesterase I/nucleotide pyrophosphatase 2	ectonucleotide pyrophosphatase/phosphodiesterase 2
Entpd3	NM_178676.4	CD39 antigen-like 3,Cd39l3,HB6,NTPDase-3	ectonucleoside triphosphate diphosphohydrolase 3
Ep300	NM_177821.6	KAT3B,p300	E1A binding protein p300
Epas1	NM_010137.3	HIF-2alpha,HIF2A,HIF,HRF,Hif like protein,MGD-MRK-38213,MOP2,bHLHe73,hypoxia inducible transcription factor 2alpha 2900005C20RIK,A1855584,Cek8,Hek8,MGD-MRK-14356,MGD-MRK- 38166,MGI:109122,MGI:1920161,MGI:2138218,RIKEN cDNA 2900005C20 gene,Sek,Sek1,Tyro1,expressed sequence A1855584,rabbit,rb,segmentation receptor tyrosine kinase	endothelial PAS domain protein 1
Epha4	NM_007936.3	AW261790,MGD-MRK-27047,MGI:2141675,expressed sequence AW261790	Eph receptor A4
Eps8	NM_001271587.1	4933424N09RIK,Exod1,RIKEN cDNA 4933424N09 gene,exonuclease domain containing 1,mKIAA1504	epidermal growth factor receptor pathway substrate 8
Eri2	NM_027698.5	A330104H05RIK,A1854460,MGI:2139104,RIKEN cDNA A330104H05 gene,expressed sequence A1854460	exoribonuclease 2
Ernm	NM_029972.3	2310008D05RIK,RIKEN cDNA 2310008D05 gene,W117m	ermin, ERM-like protein
Esam	NM_027102.3	Ellis van Crevelled gene syndrome	endothelial cell-specific adhesion molecule
Evc	NM_021292.2	AW491894,Evi-2,Evi2,MGD-MRK-9668,MGD-MRK-9671,MGI:2144542,expressed sequence AW491894	Evc ciliary complex subunit 1
Evi2a	NM_010161.3	2810407P21RIK,A730011E05RIK,MGI:1917190,RIKEN cDNA 2810407P21 gene,RIKEN cDNA A730011E05 gene,SEC3,SEC3-like 1 (S. cerevisiae),Sec31,Sec3p	ectropic viral integration site 2a
Exoc1	NM_027270.2	AW146364,MGD-MRK-15394,MGI:2142897,MGI:2147052,R75297,Vil2,cytovillin,expressed sequence AW146364,expressed sequence R75297,p81,villin 2	exocyst complex component 1
Ezr	NM_009510.2	Faxdc1,G630055L08RIK,RIKEN cDNA G630055L08 gene,fatty acid hydroxylase domain containing 1	ezrin
Fa2h	NM_178086.3	3110001A13RIK,AA589595,AA959793,AI132312,MGI:2138800,MGI:2138810,MGI:2138843,RIKEN cDNA 3110001A13 gene,expressed sequence AA589595,expressed sequence AA959793,expressed sequence AI132312	fatty acid 2-hydroxylase
Fam107b	NM_025626.4		family with sequence similarity 107, member B

Fam124a	NM_001243857.1	EG629059,predicted gene,EG629059	family with sequence similarity 124, member A
Fam129b	NM_146119.2	9130404D14RIK,RIKEN cDNA 9130404D14 gene	family with sequence similarity 129, member B
Fam160a2	NM_001242363.2	4632419K20RIK,6530415H11RIK,MGI:1923495,RIKEN cDNA 4632419K20 gene,RIKEN cDNA 6530415H11 gene	family with sequence similarity 160, member A2
Fam171a1	NM_001081161.1	9630050M13RIK,AA409679,MGI:2138771,RIKEN cDNA 9630050M13 gene,expressed sequence AA409679	family with sequence similarity 171, member A1
Fam189a2	NM_001114174.1	A1414343,A1666772,Gm967,LOC381217,MGI:2147519,MGI:2147591,expressed sequence	family with sequence similarity 189, member A2
Fam193a	NM_001243123.1	A1414343,expressed sequence A1666772, gene model 967, (NCBI),predicted gene 967	family with sequence similarity 193, member A
Fam213a	NM_027464.3	BC037112,cDNA sequence BC037112	family with sequence similarity 213, member A
Fam49a	NM_029758.4	5730469M10RIK,AU040822,Adiporexin,Adrx,MGI:2145754,RIKEN cDNA 5730469M10 gene,expressed sequence AU040822	family with sequence similarity 49, member A
Farsb	NM_011811.3	2410157M17RIK,D12ErtD553e,DNA segment, Chr 12, ERATO Doi 553, expressed,MGI:1924070,RIKEN cDNA 2410157M17 gene	family with sequence similarity 49, member A
Fat1	NM_001081286.2	C76708,Farsl,Farslb,Fr5b,MGI:2138654,PhrRS alpha,expressed sequence C76708,phenylalanine-tRNA synthetase-like, beta subunit	phenylalanyl-tRNA synthetase, beta subunit
Faxc	NM_175234.4	2310038E12RIK,AU023433,Fath,MGD-MRK-38212,MGI:1924002,MGI:2142710,RIKEN cDNA 2310038E12 gene,expressed sequence AU023433,fat tumor suppressor homolog	FAT atypical cadherin 1
Fbxo2	NM_176848.1	6230409E13RIK,AW742931,MGI:2140612,RIKEN cDNA 6230409E13 gene,expressed sequence AW742931	failed axon connections homolog
Fcer1g	NM_010185.4	FBX2,Fbx1,MGC:54895,MGI:892993,NFB42,Prg14,prion protein ligand 4	F-box protein 2
Fermt2	NM_146054.2	A1573376,Fc epsilon high affinity receptor gamma,FcR-gamma,FcR[g],FcRgamma,Fce1g,FcepsilonRI,LY-50,MGD-MRK-11993,MGD-MRK-9726,MGD-MRK-9730,MGI:2138290,expressed sequence A1573376,lymphocyte antigen 50	Fc receptor, IgE, high affinity I, gamma polypeptide
Fibp	NM_021438.4	AA960555,Kindlin-2,MGI:2145587,Mig2,Plekhc1,expressed sequence AA960555,pleckstrin homology domain containing, family C (with FERM domain) member 1	fermitin family member 2
Fkbp4	NM_010219.3	2010004G08RIK,2010005N21RIK,3010027N18RIK,MGI:1913680,MGI:1924201,MGI:1924334,RIKEN cDNA 2010004G08 gene,RIKEN cDNA 2010005N21 gene,RIKEN cDNA 3010027N18 gene	fibroblast growth factor (acidic) intracellular binding protein
Flt1	NM_010228.3	AL022792,AW208983,FKBP-52,FKBP52,MGD-MRK-9812,MGI:2141664,MGI:2147626,expressed sequence AL022792,expressed sequence AW208983	FK506 binding protein 4
Fmn1	NM_172409.2	A1323757,Flt-1,MGD-MRK-9832,MGD-MRK-9836,MGI:2140833,VEGFR-1,VEGFR1,expressed sequence A1323757,sFlt1,vascular endothelial growth factor receptor-1	FMS-like tyrosine kinase 1
Fn1	NM_010233.1	5430425K04RIK,RIKEN cDNA 5430425K04 gene,man	formin-like 2
Foxn2	NM_180974.4	Fn,Fn-1,MGD-MRK-9847,MGD-MRK-9848	fibronectin 1
Foxn3	NM_183186.2	3230402J05RIK,6030465I18RIK,Fkh19,HTLF,MGI:1276569,MGI:1918026,MGI:2442145,RIKEN cDNA 3230402J05 gene,RIKEN cDNA 6030465I18 gene,forehead homolog 19	forehead box N2
Foxo1	NM_019739.2	5430426H20RIK,AA589593,AW556347,Ches1,Ches1I,HTFL1,MGI:1276572,MGI:2144745,RIKEN cDNA 5430426H20RIK,AA589593,AW556347 gene,checkpoint suppressor 1,checkpoint suppressor 1-like,expressed sequence AA589593,expressed sequence AW556347	forehead box N3
Frmtd4b	NM_145148.2	A1876417,Afkh,FKHR,Fkhr1,Foxo1a,MGI:2139839,expressed sequence A1876417	forehead box O1
Frmpp4	NM_001033330.2	6030440G05RIK,C87375,GRSP1,MGI:2141785,R74720,RIKEN cDNA 6030440G05 gene,expressed sequence C87375,expressed sequence R74720,mKIAA1013	FERM domain containing 4B
Fryl	NM_028194.2	Gm196,LOC237234,MGI:2685042,PDZ domain containing 10,PKAP1,Pdzd10,Pdzk10,Preso,Preso1, gene model 196, (NCBI)	FERM and PDZ domain containing 4
Fst1	NM_008047.5	2010313D22RIK,2310004H21RIK,2510002A14RIK,9030227G01RIK,A1930088,MGI:1914271,MGI:1922825,MGI:2141007,MGI:2443838,RIKEN cDNA 2010313D22 gene,RIKEN cDNA 2310004H21 gene,RIKEN cDNA 2510002A14 gene,RIKEN cDNA 9030227G01 gene,expressed sequence A1930088,mKIAA0826	FRY like transcription coactivator
Fubp3	NM_001033389.3	A1316791,AW107808,MGD-MRK-19701,MGI:2146409,MGI:2146619,TSC-36,expressed sequence A1316791,expressed sequence AW107808	folliculin-like 1
Furin	NM_011046.2	A330051M14RIK,AV006371,FBP3,MGI:2139232,Marta2,RIKEN cDNA A330051M14 gene,expressed sequence AV006371	far upstream element (FUSE) binding protein 3
Fxyd5	NM_008761.3	9130404I01RIK,Fur,MGD-MRK-13193,MGD-MRK-9893,MGI:1925399,PACE,Pcsk3,RIKEN cDNA 9130404I01 gene,SPC1,proprotein convertase subtilisin/kexin type 3	furin (paired basic amino acid cleaving enzyme)
Fyn	NM_008054.2	EF-8,Oit2,oncoprotein induced transcript 2	FXD domain-containing ion transport regulator 5
Gab1	NM_001301298.1	A1448320,AW552119,MGD-MRK-9909,MGI:2143602,MGI:2143864,Src Kinase p59,expressed sequence A1448320,expressed sequence AW552119	Fyn proto-oncogene
Gabrap1	NM_020590.4	AA408973,AW107238,MGD-MRK-37125,MGI:2142409,MGI:2142758,expressed sequence AA408973,expressed sequence AW107238	growth factor receptor bound protein 2-associated protein 1
Gabrap2	NM_001081141.1	3110025G09RIK,9130422N19RIK,A1196471,App8I,Atg8I,EST A1196471,GECI,MGI:1889388,MGI:1890601,MGI:1920405,RIKEN cDNA 3110025G09 gene,RIKEN cDNA 9130422N19 gene	gamma-aminobutyric acid (GABA) A receptor-associated protein-like 1
Gabrb3	NM_008071.3	G protein-coupled receptor 51,GB2,Gababr2,Gm425,Gpr51,LOC242425,MGI:2685271, gene model 425, (NCBI)	gamma-aminobutyric acid (GABA) B receptor, 2
Gabrd	NM_008072.2	A230092K12RIK,AW049585,Cp1,Gabrb-3,MGD-MRK-26107,MGD-MRK-9935,MGD-MRK-9938,MGI:2444282,MGI:3034342,RIKEN cDNA A230092K12 gene,beta3,cleft palate 1,expressed sequence AW049585	gamma-aminobutyric acid (GABA) A receptor, subunit beta 3
Gabr1	NM_010252.4	A1853201,MGD-MRK-9939,MGI:2140393,expressed sequence A1853201	gamma-aminobutyric acid (GABA) A receptor, subunit delta
Gdap11	NM_144891.2	GabaA,MGD-MRK-24022	gamma-aminobutyric acid (GABA) A receptor, subunit gamma 1
Gfra2	NM_008115.2	MGC:28116	ganglioside-induced differentiation-associated protein 1-like 1
Gja1	NM_010288.3	GFR alpha 2,GFR alpha-2	glial cell line derived neurotrophic factor family receptor alpha 2
Gjb1	NM_008124.2	AU042049,AW546267,Cnx43,Cx43,Cx43alpha1,Gja-1,MGD-MRK-10079,MGD-MRK-10085,MGI:2143760,MGI:2143856,alpha 1 connexin,connexin 43,connexin43,expressed sequence AU042049,expressed sequence AW546267	gap junction protein, alpha 1
Glo4	NM_026029.3	A118175,Cx32,Gjb-1,MGD-MRK-10091,MGD-MRK-10096,MGI:2147847,connexin 32,connexin-32,expressed sequence A118175	gap junction protein, beta 1
Gltd1	NM_177005.4	1700082G03RIK,2700085E05RIK,C81254,MGI:1923867,MGI:2144668,RIKEN cDNA 1700082G03 gene,RIKEN cDNA 2700085E05 gene,expressed sequence C81254	glyoxalase domain containing 4
Gltp	NM_019821.2	5730455A04RIK,RIKEN cDNA 5730455A04 gene	glycosyltransferase 1 domain containing 1
Glud1	NM_008133.4	1110001F24RIK,C76925,C77564,MGI:1914169,MGI:2141279,MGI:2141288,RIKEN cDNA 1110001F24 gene,expressed sequence C76925,expressed sequence C77564	glycolipid transfer protein
Gm20425	O1T1MUST0000090337.1	A1118167,Gdh-X,Glud,Glud1,MGD-MRK-10046,MGD-MRK-10136,MGD-MRK-10139,MGI:2145599,anonymous DNA segment, Chr 14,expressed sequence A1118167,glutamate dehydrogenase like sequence	glutamate dehydrogenase 1 predicted gene 20425
Gna12	NM_010302.2	A1414047,A1504261,Galpa12,MGD-MRK-10176,MGI:2140857,MGI:2140922,expressed sequence A1414047,expressed sequence A1504261	guanine nucleotide binding protein, alpha 12
Gna13	NM_010303.3	AU024132,AU043124,Galpa13,MGD-MRK-10177,MGI:2144419,MGI:2144437,expressed sequence AU024132,expressed sequence AU043124	guanine nucleotide binding protein, alpha 13
Gna2	NM_008138.4	C76432,Galpa12,Gi protein, alpha chain (inhib. reg. adenylate cyclase),Gla,Gna1-2,MGD-MRK-10075,MGD-MRK-10181,MGD-MRK-10184,MGI:2143377,expressed sequence C76432	guanine nucleotide binding protein (G protein), alpha inhibiting 2
Gnb5	NM_138719.5	G beta 5,Gbetas5,MGD-MRK-18671,flail,flailier,flr	guanine nucleotide binding protein (G protein), beta 5
Gng11	NM_025331.2	0610037B21RIK,RIKEN cDNA 0610037B21 gene	guanine nucleotide binding protein (G protein), gamma 11
Gng12	NM_001177559.1	2010305F15RIK,AA536815,A1115529,A1314170,A1842738,EST AA536815,EST A1115529,EST A1314170,MGI:1889368,MGI:1889384,MGI:1889807,MGI:1919361,MGI:2141487,RIKEN cDNA 2010305F15 gene,expressed sequence A1842738	guanine nucleotide binding protein (G protein), gamma 12
Gns	NM_029364.3	2610016K11RIK,AU042285,C87209,G6S,MGI:2143761,MGI:2143948,MGI:2143956,N28088,RIKEN cDNA 2610016K11 gene,expressed sequence AU042285,expressed sequence C87209,expressed sequence N28088	glucosamine (N-acetyl)-6-sulfatase
Golm4	NM_001291069.1	3110027H23RIK,GPP130,Golp4,P138,RIKEN cDNA 3110027H23 gene,golgi phosphoprotein 4	golgi integral membrane protein 4
Got1	NM_010324.1	A1789014,Got-1,MGD-MRK-10213,MGD-MRK-10215,MGI:2147593,cAspAT,cytosolic aspartate aminotransferase,expressed sequence A1789014	glutamic-oxaloacetic transaminase 1, soluble
Gpc1	NM_016696.4	A1462976,MGI:2138263,expressed sequence A1462976	glypican 1
Gphn	NM_145965.2	5730552E08RIK,A1662856,BC027112,MGC:38765,MGD-MRK-39601,MGI:1917919,MGI:2144880,MGI:2384824,RIKEN cDNA 5730552E08 gene,cDNA sequence BC027112,expressed sequence A1662856,geph	gephyrin

		AMF,Gpi-1,Gpi-1r,Gpi-1s,Gpi-1r,Gpi-1s,Gpi-1t,MF,MGD-MRK-10227,MGD-MRK-10228,MGD-MRK-10229,MGD-MRK-10230,MGD-MRK-10231,MGD-MRK-10232,MGD-MRK-10233,MGD-MRK-10234,MGD-MRK-13047,MGI:95798,MGI:95799,MGI:95800,NK,NK/PGI,Org,autocrine motility factor,glucose phosphate isomerase 1, regulatory,glucose phosphate isomerase 1, structural,glucose phosphate isomerase 1, temporal,maturation factor,neuroleukin	glucose phosphate isomerase 1 G protein-coupled receptor 158
Gpr158	NM_001004761.1	5330427M13RIK,RIKEN cDNA 5330427M13 gene,mKIAA1136	
		A1848630,MGI:2141499,Pacl-R,expressed sequence A1848630,parkin-associated endothelin B-like receptor	
Gpr37	NM_010338.2		G protein-coupled receptor 37
Gpr62	NM_001159652.1	4933402E03RIK,MGI:1914001,RIKEN cDNA 4933402E03 gene	G protein-coupled receptor 62
Gprc5b	NM_001195774.1	AW125761,MGI:2142210,expressed sequence AW125761,hypothetical protein, clone 2-63	G protein-coupled receptor, family C, group 5, member B
		9030613F08RIK,9130427A09RIK,AW061306,MGI:1921790,MGI:2147344,RIKEN cDNA 9030613F08 gene,RIKEN cDNA 9130427A09 gene,expressed sequence AW061306	GRAM domain containing 3
Gramd3	NM_026240.2	2900064I19RIK,Glur3,Glur-3,Glur3,Gluralpha3,MGD-MRK-10142,MGD-MRK-10149,MGD-MRK-10248,MGI:1920286,RIKEN cDNA 2900064I19 gene,glutamate receptor 3	glutamate receptor, ionotropic, AMPA3 (alpha 3)
Gria3	NM_016886.3	MGD-MRK-10272,PC cell-derived growth factor,Prn,acroganulin,epithelin,progranulin	granulin
Grn	NM_008175.4		
Gss	NM_008180.1	A1314904,GS-A/GS-B,MGD-MRK-10303,MGI:2138886,expressed sequence A1314904	glutathione synthetase
Gstz1	NM_010363.2	maleylacetoacetate isomerase	glutathione transferase zeta 1 (maleylacetoacetate isomerase)
		34kDa,5033417D07RIK,BTF2,D5Erd679e,DNA segment, Chr 5, ERATO Doi 679, expressed,MGI:1923218,RIKEN cDNA 5033417D07 gene	general transcription factor IIH, polypeptide 3
Gtf2h3	NM_181410.3	2610028C09RIK,Crfg,MGI:1927543,Nog1,RIKEN cDNA 2610028C09 gene	GTP binding protein 4
Gtpbp4	NM_027000.2		
Gucyl1b1	NM_017469.4	Gucyl1b3,beta 1 sGC,guanylate cyclase 1, soluble, beta 3	guanylate cyclase 1, soluble, beta 1
		D17H65112E,DNA segment, Chr 17, human D6S112E,H-2K region expressed gene 6,H-2Ke6,MGD-MRK-10396,MGD-MRK-10507,MGD-MRK-15996,MGI:99239,Ring2	H2-K region expressed gene 6 H2A histone family, member Z
H2-Ke6	NM_013543.2		
H2afz	NM_016750.2	H2A.Z,H2A.Z1	
		4930479F15RIK,MGI:1922043,Mtpb,RIKEN cDNA 4930479F15 gene	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), beta subunit
Hadhb	NM_145558.1	Gm869,LOC380629,gene model 869, (NCBI)	hdc homolog, cell cycle regulator
Heca	NM_001033432.3	9330116H24RIK,AV273951,E13020719RIK,EST AV273951,MGI:2137556,MGI:2442515,NEDL1,RIKEN cDNA 9330116H24 gene,RIKEN cDNA E13020719 gene	HECT, C2 and WW domain containing E3 ubiquitin protein ligase 1
Hecw1	NM_001081348.3		
		5031400M07RIK,MGI:1930872,RIKEN cDNA 0610005A07 gene,RIKEN cDNA 5031400M07 gene,9430010M12RIK,AW208455,D8Erd354e,DNA segment, Chr 8, ERATO Doi 354, expressed,MGI:1924492,MGI:2142772,RIKEN cDNA 9430010M12 gene,Tmem76,expressed sequence AW208455	HERPUD family member 2
Herpud2	NM_020586.2		
		1190005L05RIK,RIKEN cDNA 1190005L05 gene	heparan-alpha-glucosaminide N-acetyltransferase
Hgsnat	NM_029884.1	2610109B09RIK,A930014B11RIK,E130315I21RIK,HIP-1,MGC:27616,MGI:1924028,MGI:1924349,MGI:2443720,RIKEN cDNA 2610109B09 gene,RIKEN cDNA A930014B11 gene,RIKEN cDNA E130315I21 gene	histidine triad nucleotide binding protein 2
Hint2	NM_026871.1		
Hip1	NM_146001.2		huntingtin interacting protein 1
		AF010600,BC057116,MGI:2139614,MGI:3039609,P113,SNF2 (sucrose nonfermenting, yeast, homolog)-like 3,SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily a, member 3,Smarca3,Snf2l3,cDNA sequence BC057116,expressed sequence AF010600	helicase-like transcription factor
Hltf	NM_009210.3		
		4833420I20RIK,AA407306,Hnrpf,RIKEN cDNA 4833420I20 gene,expressed sequence AA407306	heterogeneous nuclear ribonucleoprotein F
Hnrnpf	NM_001166430.1		
Hpb1bp3	NM_001122896.2	Hpb1bp74,MGC:28927,MGD-MRK-38414	heterochromatin protein 1, binding protein 3
		0610007A03RIK,AA408769,MGI:2142406,RIKEN cDNA 0610007A03 gene,expressed sequence AA408769	heat shock factor binding protein 1
Hspb1	NM_024219.1		
Hsd12	NM_024255.3	2610207I16RIK,RIKEN cDNA 2610207I16 gene	hydroxysteroid dehydrogenase like 2
		AL024080,AL024147,Hsp86-1,Hsp89,Hsp90,Hspca,MGD-MRK-10966,MGD-MRK-10973,MGD-MRK-10974,MGD-MRK-19409,MGI:2144927,MGI:2144928,MGI:96255,expressed sequence AL024080,expressed sequence AL024147,heat shock protein,heat shock protein 1, alpha,heat shock protein, 1,heat shock protein, 90 kDa,hsp4	heat shock protein 90, alpha (cytosolic), class A member 1
Hsp90aa1	NM_010480.5	HSP70B1,Hsp70,Hsp70-1,Hsp70-1,MGD-MRK-10958,MGD-MRK-16294,heat shock protein, 70,heat shock protein, 70 kDa 1,hsp68	heat shock protein 1B
Hspa1b	NM_010478.2		
Hspa2	NM_008301.4	70kDa,Hsp70-2,MGD-MRK-10959,MGD-MRK-19433,heat shock protein, 70 kDa 2	heat shock protein 2
		70kDa,A1317151,APG-2,Hsp110,Hsp70RY,MGI:1096373,MGI:2144116,expressed sequence A1317151,heat shock protein, 110 kDa	heat shock protein 4
Hspa4	NM_008300.3	AU018630,AW413033,Cryac,D5Ucl4a,DNA segment, Chr 5, University of California at Los Angeles 4,E2IG1,H11,H11K,HSP20-like,HSP22,MGD-MRK-7380,MGI:2141037,MGI:2141190,MGI:93475,crystallin, alpha C,expressed sequence AU018630,expressed sequence AW413033	heat shock protein 8
Hspb8	NM_030704.2	A1790491,HSP110,Hsp105,Hsp110,MGD-MRK-32092,MGI:2140965,expressed sequence A1790491,heat shock protein 105,heat shock protein 110,hsp-E71,hsp110/105	heat shock 105kDa/110kDa protein 1
Hsp110	NM_013559.2	5430411K16RIK,AA409502,MGI:2142931,RIKEN cDNA 5430411K16 gene,expressed sequence AA409502,mKIAA1417	inhibitor of Bruton agammaglobulinemia tyrosine kinase
Ibtk	NM_001081282.2		
Ica1	NM_010492.3	69kDa,ICA69,MGD-MRK-11145	islet cell autoantigen 1
		1700030B17RIK,Ats2c15,Bench to Bassinet Program (B2B/CVDC), mutation 3465 Ceclia Lo,MGI:5648232,Mutant line 3465 Ceclia Lo,RIKEN cDNA 1700030B17 gene,amytrophic lateral sclerosis 2 (juvenile) chromosome region, candidate 15,b2b3465C1o	islet cell autoantigen 1-like
Ica11	NM_027407.3		
Idh2	NM_173011.2	IDPM,Idh-2,MGD-MRK-11181,MGD-MRK-11184,iso citrate dehydrogenase 2	isocitrate dehydrogenase 2 (NADP+), mitochondrial
Idnk	NM_198004.3	5133401N09RIK,RIKEN cDNA 5133401N09 gene	idnk gluconokinase homolog (E. coli)
		2600013G09RIK,RAB, member of RAS oncogene family-like 4,RIKEN cDNA 2600013G09 gene,Rab14	intraflagellar transport 27
Ift27	NM_025931.2		
Igf1r	NM_010513.2	A330103N21RIK,CD221,IGF-1R,MGD-MRK-11229,MGI:1925023,MGI:3576016,RIKEN cDNA A330103N21 gene,hydrops fetalis,hyft,line 186	insulin-like growth factor 1 receptor
		A1256729,AW208790,IGFBP-5,IGFBP-5P,MGD-MRK-11237,MGI:2138187,MGI:2138571,expressed sequence A1256729,expressed sequence AW208790	insulin-like growth factor binding protein 5
Igfbp5	NM_010518.2		
Il17d	NM_145837.3	A1462269,MGI:2145659,expressed sequence A1462269	interleukin 17D
		1190002L16RIK,A1256594,MGI:2142999,RIKEN cDNA 1190002L16 gene,expressed sequence A1256594	
Imp3	NM_133976.2		
Impact	NM_008378.2	E430016I11RIK,MGI:2442038,RIKEN cDNA E430016I11 gene	IMP3, U3 small nucleolar ribonucleoprotein
Inha	NM_010564.4	AW555078,MGD-MRK-11406,MGI:2138616,expressed sequence AW555078	inhibin alpha
Inpp4a	NM_172971.2	107kDa,MGI:2138728,R74740,expressed sequence R74740	inositol polyphosphate-4-phosphatase, type I
Inpp1	NM_010567.2	SHIP2	inositol polyphosphate phosphatase-like 1
		5033401O05RIK,A1115430,Cd49f,MGD-MRK-11484,MGI:1923212,MGI:2138837,RIKEN cDNA 5033401O05 gene,expressed sequence A1115430	integrin alpha 6
Itha6	NM_008397.3	4633401G24RIK,AA409975,AA960159,CD29,ENSMUSG00000051907,Fnrb,Gm9863,MGD-MRK-11489,MGD-MRK-9852,MGI:1918062,MGI:2142419,MGI:2142452,MGI:3708799,RIKEN cDNA 4633401G24 gene,beta1 integrin,expressed sequence AA409975,expressed sequence AA960159,fibronectin receptor beta (integrin),predicted gene 9863,predicted gene, ENSMUSG00000051907	integrin beta 1 (fibronectin receptor beta)
Ithb1	NM_010578.1	AA475909,A1874634,EST AA475909,ESTM23,MGD-MRK-11493,MGI:1201382,MGI:2146516,[b]-5,[b]5,[b]5A,[b]5B,beta5,beta5,expressed sequence A1874634,expressed sequence tag mouse EST 23	integrin beta 5
Ithb5	NM_001145884.1		
Ithb8	NM_177290.3	4832412O06RIK,MGI:2445021,RIKEN cDNA 4832412O06 gene	integrin beta 8
		1110033J02RIK,E130307H12RIK,MGD-MRK-38279,MGI:1915910,MGI:2443962,RIKEN cDNA 1110033J02 gene,RIKEN cDNA E130307H12 gene	inositol 1,4,5-trisphosphate 3-kinase B
Itpkb	NM_001081175.1	5730436I23RIK,D11Erd195e,DNA segment, Chr 11, ERATO Doi 195, expressed,MGI:1261867,MGI:1917797,PSR,PtdSerR,Ptdsr,RIKEN cDNA 5730436I23 gene,mKIAA0585,phosphatidylserine receptor,phosphatidylserine receptor-pending	jumonji domain containing 6
Jmjd6	NM_033398.2	A930031B09RIK,AU015049,AW121052,Ankrd15,D330024H06RIK,MGI:1925073,MGI:2147636,RIKEN cDNA A930031B09 gene,RIKEN cDNA D330024H06 gene,ankyrin repeat domain 15,expressed sequence AU015049,expressed sequence AW121052,mKIAA0172	KN motif and ankyrin repeat domains 1
Kank1	NM_181404.5	AV032399,Calp250,KChIP4a,MGI:2141108,expressed sequence AV032399	Kv channel interacting protein 4
Kcni4	NM_001199244.1	9230107O05RIK,AA589396,D1Mg1,DNA segment, Chr 1, Mouse Genome Informatics 1,MGI:2138116,RIKEN cDNA 9230107O05 gene,expressed sequence AA589396	potassium voltage-gated channel, subfamily Q, member 5
Kcnq5	NM_001160139.1	4933402K10RIK,A1661543,AW553000,MGI:2146661,MGI:2147253,RIKEN cDNA 4933402K10 gene,expressed sequence A1661543,expressed sequence AW553000	potassium channel tetramerisation domain containing 1
Kctd1	NM_001142731.1		

Kctd12	NM_177715.4	AU046135,AWS38430,MGI:2145763,Pfet1,Pfetin,expressed sequence AU046135,expressed sequence AW538430	potassium channel tetramerisation domain containing 12
Kif13b	NM_001081177.1	5330429L19RIK,AI429803,C130021D12RIK,GAKIN,MGI:1924355,MGI:2145641,N-3 kinesin,RIKEN cDNA 5330429L19 gene,RIKEN cDNA C130021D12 gene,expressed sequence AI429803	kinesin family member 13B
Kif1c	NM_153103.2	B430105J22RIK,D11Bwg1349e,DNA segment, Chr 11, Brigham & Women's Genetics 1349 expressed,Ltxs1,MGD-MRK-36568,MGI:106361,MGI:107988,MGI:1335095,MGI:2443544,N-3 kinsin,Orch3,RIKEN cDNA B430105J22 gene,autoimmune orchitis resistance 3,lethal factor toxin susceptibility 1	kinesin family member 1C
Kif3a	NM_008443.3	AF180004,AF180009,AW124694,DNA sequence AF180004,DNA sequence AF180009,Kif3,Kif3,Kns3,MGD-MRK-11592,MGD-MRK-36254,MGI:2136248,MGI:2136249,MGI:2144502,MGI:894290,N-4 kinesin,expressed sequence AW124694,kinesin family member 3,kinesin family-like,kinesin-II subunit	kinesin family member 3A
Klc2	NM_008451.2	8030455F02RIK,AW212649,MGD-MRK-36533,MGI:2147719,MGI:2447825,RIKEN cDNA 8030455F02 gene,expressed sequence AW212649	kinesin light chain 2
Kih121	NM_001033352.3	1810045K06RIK,RIKEN cDNA 1810045K06 gene,mKIAA0469	kelch-like 21
Klk6	NM_001164696.1	A1849898,Bssp,Klk29,MGI:1347349,MGI:2142052,Prss18,Prss9,expressed sequence A1849898,kallikrein 29,neurosin,protease M,protease,serine,18,protease,serine,9	kallikrein related-peptidase 6
Ktn1	NM_008477.2	MGD-MRK-38197 AW211941,Lamb-2,Lams,MGD-MRK-11736,MGD-MRK-11747,MGD-MRK-16715,MGI:2143298,MGI:3584415,expressed sequence AW211941,laminin,5 polypeptide (synapses),nephertitin,ngpt	kinectin 1
Lamb2	NM_008483.3	CD107b,Lamp-2,Lamp-2a,Lamp-2c,MGD-MRK-11741,MGD-MRK-11745,Mac3	laminin, beta 2
Lamp2	NM_001017959.1	E3,MGD-MRK-37082	lysosomal-associated membrane protein 2
Laptm5	NM_010686.3	4932411G09RIK,AV277261,AW228608,MGI:2145781,MGI:2145807,MGI:2443802,RIKEN cDNA 4932411G09 gene,expressed sequence AV277261,expressed sequence AW228608	lysosomal-associated protein transmembrane 5
Lats2	NM_153382.1	AWS536232,D14Erd310e,DNA segment, Chr 14, ERATO Doi 310, expressed,L-fibrin,L-plastin,MGD-MRK-28102,MGI:1261889,MGI:2145820,Pls2,expressed sequence AWS536232,plastin 2,1	large tumor suppressor 2
Lcp1	NM_001247984.1	OB-ORRP,Obrgrp,leptin receptor gene-related protein	lymphocyte cytosolic protein 1
Leprot	NM_175036.4	G protein-coupled receptor 49,Gpr49	leptin receptor overlapping transcript
Lgr5	NM_010195.2	A1447312,AW050355,MGI:2145409,MGI:4837107,expressed sequence A1447312,expressed sequence AW050355,mKIAA0206,vaginal imperforation,vgim	leucine rich repeat containing G protein coupled receptor 5
Lhplf2	NM_172589.2	A230075M04RIK,AW061234,MGD-MRK-11808,MGI:2146188,MGI:2442497,RIKEN cDNA A230075M04 gene,expressed sequence AW061234,soluble differentiation-stimulating factor receptor	lipoma HMGIC fusion partner-like 2
Lifr	NM_001113386.1	A930024P04RIK,C85310,LIM kinase 2,Limk2a,Limk2b,MGI:2144678,MGI:2443338,MGI:3612834,RIKEN cDNA A930024P04 gene,expressed sequence C85310,white eyes	LIF receptor alpha
Limk2	NM_001034030.2	2310016J22RIK,4921524A02RIK,AI507642,AU021743,AWS51584,C430041B13RIK,LIM and senescent cell antigen-like domains 1-like,Lims1,MGI:1914678,MGI:1919149,MGI:2143635,MGI:2143741,MGI:2143862,MGI:2445157,PI NCH1,RIKEN cDNA 2310016J22 gene,RIKEN cDNA 4921524A02 gene,RIKEN cDNA C430041B13 gene,expressed sequence AI507642,expressed sequence AU021743,expressed sequence AW551584	LIM motif-containing protein kinase 2
Lims1	NM_026148.3	MGD-MRK-13797,MGD-MRK-13800,MGD-MRK-19719,Rbtn-2,Rbtn2,Rhom-2,rhombotin 2	LIM and senescent cell antigen-like domains 1
Lmo2	NM_001142335.1	Lrp9	LIM domain only 2
Lnx1	NM_010727.4	6430526J12RIK,MGI:2660807,Megf7,RIKEN cDNA 6430526J12 gene,malformed digits,mdig	ligand of numb-protein X 1
Lrp10	NM_022993.3	A1430817,AW050057,D430025H09RIK,MGI:2143047,MGI:2143284,RIKEN cDNA D430025H09 gene,expressed sequence A1430817,expressed sequence AW050057	low-density lipoprotein receptor-related protein 10
Lrp4	NM_172668.3	A1841794,expressed sequence A1841794	low density lipoprotein receptor-related protein 4
Lrrc49	NM_145616.4	1810012P15RIK,RIKEN cDNA 1810012P15 gene	leucine rich repeat containing 49
Lrtm2	NM_172492.3	9630059K23RIK,RIKEN cDNA 9630059K23 gene,Rab3 GEP,mKIAA0358	leucine-rich repeats and transmembrane domains 2
Lsm4	NM_015816.4	Gma,MGD-MRK-10172,MGD-MRK-12105,siglec-4a	LSM4 homolog, U6 small nuclear RNA and mRNA degradation associated
Lym9	NM_001076681.2	AI461653,expressed sequence AI461653	LYR motif containing 9
Madd	NM_001177720.1	MGD-MRK-12109,MGD-MRK-12110,MGD-MRK-27032,Mana-2,Mana2,Map-2,alpha mannosidase 2	MAP-kinase activating death domain
Mag	NM_010758.2	E130314H24RIK,Mik1	myelin-associated glycoprotein
Mal2	NM_178920.2	4432415E19RIK,GCKR,KHS,MAPK3,RIKEN cDNA 4432415E19 gene	mal, T cell differentiation protein 2
Man2a1	NM_008549.2	E-MAP-115,MGD-MRK-12569,MGD-MRK-14620,MGD-MRK-35074,MGI:106617,MGI:2143958,Mtap7,R75000,expressed sequence R75000,male sterility,male sterility and histoincompatibility,mshj,mste,ste	mannosidase 2, alpha 1
Map3k9	NM_001174107.1	2610021I23RIK,D130053K17RIK,ERK3,Erk3,MGD-MRK-33595,MGD-MRK-9585,MGI:105918,MGI:1346860,MGI:1917663,MGI:2441943,Mapk4,Mapk63,Prkm4,Prkm6,RIKEN cDNA 2610021I23 gene,RIKEN cDNA D130053K17 gene,erk related tyrosine kinase 3,mitogen activated protein kinase 4,protein kinase, mitogen activated kinase 4	mitogen-activated protein kinase kinase kinase 9
Map4k5	NM_201519.2	A1851083,JNK/SAPK alpha,JNK2,MGI:1202396,MGI:2144306,Prkm9,c-jun N-terminal kinase,expressed sequence A1851083,protein kinase, mitogen-activated 9	mitogen-activated protein kinase kinase kinase 5
Map7	NM_008635.2	A960234,MAPKAP kinase 2,MGD-MRK-38343,MGI:2138137,MK2,Rps6kc1,expressed sequence AA960234,ribosomal protein S6 kinase, 60 kDa, polypeptide 1	microtubule-associated protein 7
Mapk6	NM_015806.4	A1413597,AW045860,MGD-MRK-12590,MGD-MRK-14720,MGI:2144146,MGI:2144478,Mtapt,Tau,expressed sequence A1413597,expressed sequence AW045860	mitogen-activated protein kinase 6
Mapk9	NM_207692.1	2810049G06RIK,AU022889,AWS47221,MGI:2144960,MGI:2145040,O-acyltransferase (membrane bound) domain containing 2,Oact2,RIKEN cDNA 2810049G06 gene,expressed sequence AU022889,expressed sequence AWS47221	mitogen-activated protein kinase 9
Mapkap2	NM_008551.1	C76307,Hmbpr,MGD-MRK-10746,MGD-MRK-12126,MGD-MRK-12253,MGD-MRK-14404,MGI:2147393,MGI:2147422,MGI:3708158,R75289,expressed sequence C76307,expressed sequence R75289,golli-mbp,hemoipoietic myelin basic protein related,jive,jve,mld,myelin deficient,shj,shiverr	MAP kinase-activated protein kinase 2
Mapt	NM_001038609.2	4930552N12RIK,RIKEN cDNA 4930552N12 gene	microtubule-associated protein tau
Mboat2	NM_026037.3	AWS56805,MGD-MRK-18576,MGI:2140009,Mcl-1,expressed sequence AWS56805	membrane bound O-acyltransferase domain containing 2
Mbp	NM_010777.3	MGD-MRK-12183,MGD-MRK-12185,Mea-1,male-enhanced antigen 1	myelin basic protein
Mccc2	NM_030026.2	A1195831,MGI:2140207,Nr1f1,expressed sequence A1195831,nuclear receptor binding factor 1	myelin crotonoyl-Coenzyme A carboxylase 2 (beta)
Mcl1	NM_008562.3	2210413117RIK,6330591G05RIK,9030618F05RIK,MGI:1918805,MGI:1922081,MGI:1923449,RIKEN cDNA 2210413117 gene,RIKEN cDNA 6330591G05 gene,RIKEN cDNA 9030618F05 gene,Thrap2,Trap240L,mKIAA1025,thyroid hormone receptor associated protein 2	myeloid cell leukemia sequence 1
Mea1	NM_010787.1	9930001L01RIK,AU041628,Crs2,ENSMUSG00000073278,Gm641,LOC270579,MGI:2147974,MGI:2685487,MGI:3641973,ORF1,RIKEN cDNA 9930001L01 gene,Trap170,cofactor required for Sp1 transcriptional activation, subunit 2,expressed sequence AU041628, gene model 641,(NCBI),predicted gene, ENSMUSG00000073278	male enhanced antigen 1
Mecr	NM_025297.2	2810405O22RIK,AU020902,lxl,MGI:2144402,RIKEN cDNA 2810405O22 gene,expressed sequence AU020902,intersex-like (Drosophila)	mediator complex subunit 13-like
Med13l	NM_172424.4	5430401D19RIK,9930028G15RIK,AV011172,MGD-MRK-16227,MGI:1918600,MGI:2145387,MGI:2443757,RIKEN cDNA 5430401D19 gene,RIKEN cDNA 9930028G15 gene,expressed sequence AV011172	mediator complex subunit 14
Med14	NM_001048208.1	2310002F04RIK,6330416C07RIK,D3Erd265e,DNA segment, Chr 3, ERATO Doi 265, expressed,HR2,MGI:1098715,MGI:1916768,RIKEN cDNA 2310002F04 gene,RIKEN cDNA 6330416C07 gene	mediator complex subunit 29
Med29	NM_026042.3	2810423E13RIK,AI836898,AV142426,Cln7,MGI:2139801,MGI:3035426,RIKEN cDNA 2810423E13 gene,expressed sequence AI836898,expressed sequence AV142426	myocyte enhancer factor 2C
Mef2c	NM_001170537.1	2010012L10RIK,2010306B17RIK,2700004G04RIK,AA516734,GST-III,MGI:1915449,MGI:1922953,MGI:2138101,RIKEN cDNA 2010012L10 gene,RIKEN cDNA 2010306B17 gene,RIKEN cDNA 2700004G04 gene,expressed sequence AA516734	mitofusin 1
Mfn1	NM_024200.4	2810423E13RIK,AI836898,AV142426,Cln7,MGI:2139801,MGI:3035426,RIKEN cDNA 2810423E13 gene,expressed sequence AI836898,expressed sequence AV142426	major facilitator superfamily domain containing 8
Mfsd8	NM_028140.4	2010306B17 gene,RIKEN cDNA 2700004G04 gene,expressed sequence AA516734	microsomal glutathione S-transferase 3
Mgst3	NM_025569.1	5330438E18RIK,RIKEN cDNA 5330438E18 gene	microtubule associated monoxygenase, calponin and LIM domain containing 2
Mical2	NM_177282.5		

		AW048630, BB074274, KIAA0027 hypothetical protein (human), Kiaa0027-hp, MGI:2146178, MGI:2146258, WK1.1, expressed sequence AW048630, expressed sequence BB074274, mKIAA0027	megalencephalic leukoencephalopathy with subcortical cysts 1 homolog (human)
Mic1	NM_133241.2	4022402H07Rik, MGC:6884, MOB1, Mps One Binder kinase activator-like 1B (yeast), Mobk1b, Mobk1b, RIKEN cDNA 4022402H07 gene	MOB kinase activator 1A
Mob1a	NM_145571.2	Ai835053, Ai839848, MGD-MRK-37555, MGI:2143124, MGI:2143130, MGI:2143445, MOB1P155, R74645, expressed sequence Ai835053, expressed sequence Ai839848, expressed sequence R74645	myelin-associated oligodendrocytic basic protein
Mobp	NM_001039364.2	B230317G11Rik, MGD-MRK-13032, MGI:2443229, RIKEN cDNA B230317G11 gene	myelin oligodendrocyte glycoprotein
Mog	NM_010814.2	261052802Rik, AW495628, MGI:2143844, RIKEN cDNA 261052802.2 gene, SF21, expressed sequence AW495628, mKIAA1040	MON2 homolog, regulator of endosome to Golgi trafficking
Mon2	NM_153395.2	AW046321, MGI:2146610, expressed sequence AW046321	mitochondrial ribosomal protein S6
Mrps6	NM_080456.1	MRP-57, Rgms7, ribosomal protein, mitochondrial, S7	mitochondrial ribosomal protein S7
Mrps7	NM_025305.2	Ai788990, MGD-MRK-18634, MGI:2146922, expressed sequence Ai788990	musT5 homolog 2
Msh2	NM_008628.2	17001051C5Rik, Ai451722, Ai563628, AW489193, MGI:2144175, MGI:2144227, MGI:2144536, Musash12, RIKEN cDNA 17001051C5 gene, expressed sequence Ai451722, expressed sequence Ai563628, expressed sequence AW489193, msi2h	musashi RNA-binding protein 2
Msi2	NM_054043.3	C78546, MGD-MRK-12566, MGI:2148057, expressed sequence C78546	moesin
Msn	NM_010833.2	111000212Rik, MGI:1915798, RIKEN cDNA 111000212.2 gene, mKIAA1266	metastasis associated 3
Mta3	NM_001171054.1	9230112N11Rik, AA537621, C76717, M96, MGD-MRK-32089, MGI:1924995, MGI:2141276, MGI:3034211, Pcl2, RIKEN cDNA 9230112N11 gene, expressed sequence AA537621, expressed sequence C76717	metal response element binding transcription factor 2
Mtf2	NR_045608.1		
Mtmr10	NM_172742.2	BB128963, C79734, MGI:2142333, expressed sequence BB128963, expressed sequence C79734 C80049, D0lmb2, DNA segment, Jeremy M. Boss 2, E030044M24Rik, Flnr, MGD-MRK-12745, MGD-MRK-12749, MGD-MRK-36293, MGI:1206575, MGI:1344335, MGI:2146296, MGI:2443228, MGI:97257, Myhn-1, Myhn1, NMHC II-A, RIKEN cDNA E030044M24 gene, expressed sequence C80049, flectin, myosin IIA, myosin heavy chain, nonmuscular, type A	myotubularin related protein 10
Myh9	NM_022410.2	2900073G15Rik, Ai838292, C80200, MGI:2146927, MGI:2147135, NMDA receptor-interacting protein, RIKEN cDNA 2900073G15 gene, brain specific myosin regulatory light chain, expressed sequence Ai838292, expressed sequence C80200	myosin, heavy polypeptide 9, non-muscle
Myl12a	NM_026064.2		myosin, light chain 12A, regulatory, non-sarcomeric
Myi6b	NM_172259.1	5730437E04Rik, BC037527, MGC:41229, RIKEN cDNA 5730437E04 gene, cDNA sequence BC037527	myosin, light polypeptide 6B
Myo10	NM_019472.2	AW048724, D15Erttd600e, DNA segment, Chr 15, ERATO Doi 600, expressed, MGD-MRK-36292, MGI:1277228, MGI:2146179, expressed sequence AW048724, mKIAA0799, myosin-X C80397, MGD-MRK-35069, MGI:2144662, expressed sequence C80397, mm1beta, myosin-lbeta, myr2	myosin X
Myo1c	NM_001080775.1	2310020N23Rik, 9130023P14Rik, AA407778, MGD-MRK-35078, MGI:1913768, MGI:1918852, MGI:2142912, RIKEN cDNA 2310020N23 gene, RIKEN cDNA 9130023P14 gene, expressed sequence AA407778	myosin IC
Myo1e	NM_181072.3	9630007J19Rik, Ai413174, Ai661011, 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, MyoVA, RIKEN cDNA 9630007J19 gene, dilute, expressed sequence Ai413174, expressed sequence Ai661011, flail1, flailier, flr, myosin V, nfm244	myosin IE
Myo5a	NM_010864.2	Gm1804, Gm98, LOC225908, LOC386531, MGI:2686650, gene model 1804, (NCBI), gene model 98, (NCBI), predicted gene 98	myosin VA
Myrf	NM_001033481.1	Ai225910, MGI:2142995, N-acetyltransferase 6, Nat6, expressed sequence Ai225910	myelin regulatory factor
Naa80	NM_019750.3		N(alpha)-acetyltransferase 80, NATH catalytic subunit
Naga	NM_008669.4		N-acetyl galactosaminidase, alpha
Napb	NM_019632.3	Brp14, E161, i47, MGD-MRK-25996, MGI:1930655, SNARE, b-SNAP, brain protein 14	N-ethylmaleimide sensitive fusion protein attachment protein beta
Ncald	NM_134094.3	Ai848120, D030020D09Rik, D15Erttd412e, DNA segment, Chr 15, ERATO Doi 412, expressed, MGI:1925700, MGI:2146078, RIKEN cDNA D030020D09 gene, expressed sequence Ai848120	neurocalcin delta
Ncoa1	NM_010881.2	KAT13A, SRC-1, SRC-a/NCOA-1, SRC1, bHLHe74, steroid receptor coactivator-1	nuclear receptor coactivator 1
Nde1	NM_023317.2	2810027M15Rik, AU042936, AW822251, MGI:2146576, MGI:2146676, RIKEN cDNA 2810027M15 gene, expressed sequence AU042936, expressed sequence AW822251, mNudE	nudE neurodevelopment protein 1
Ndrp1	NM_008681.2	CAP43, CMT4D, DRG1, MGI:1095397, N-myc downstream regulated 1, N-myc downstream regulated-like, Ndr1, Ndr1, PROXY1, TDD5, Tdd5	N-myc downstream regulated gene 1
Ndufa2	NM_010885.4	AV000592, B8, C1-88, MGI:2147331, expressed sequence AV000592	NADH:ubiquinone oxidoreductase subunit A2
Ndufa5	NM_026614.2	2900002J19Rik, RIKEN cDNA 2900002J19 gene	NADH:ubiquinone oxidoreductase subunit A5
Ndufab1	NM_028177.3	2210401F17Rik, 2310039H15Rik, 2610003B19Rik, 8kDa, 9130423F15Rik, MGI:1913636, MGI:1918864, MGI:1919520, RIKEN cDNA 2210401F17 gene, RIKEN cDNA 2310039H15 gene, RIKEN cDNA 2610003B19 gene, RIKEN cDNA 9130423F15 gene	NADH:ubiquinone oxidoreductase subunit A1
Necap1	NM_026267.2	1200016B17Rik, Ai747569, MGI:2141467, RIKEN cDNA 1200016B17 gene, expressed sequence Ai747569	NECAP endocytosis associated 1
Nedf8	NM_008683.3	MGD-MRK-12814, Rub1	neural precursor cell expressed, developmentally down-regulated gene 8
Nfe2l2	NR_132727.1	Ai194320, MGD-MRK-37463, MGI:2138857, Nrf2, expressed sequence Ai194320	nuclear factor, erythroid derived 2, like 2
Nfia	NM_010905.3	1110047K16Rik, 9430022M17Rik, MGD-MRK-37092, MGI:1916088, MGI:2444170, NF1-A, NF1A, RIKEN cDNA 1110047K16 gene, RIKEN cDNA 9430022M17 gene	nuclear factor I/A
Nfib	NM_001113209.1	6720429L07Rik, E030026I10Rik, MGD-MRK-24056, MGI:1924433, MGI:2442665, RIKEN cDNA 6720429L07 gene, RIKEN cDNA E030026I10 gene	nuclear factor I/B
Nhs1	NM_001163592.1	5730409E15Rik, A630035H13Rik, BC013565, D10Bwg0940e, DNA segment, Chr 10, Brigham & Women's Genetics 0940 expressed, MGD-MRK-34083, MGI:1917752, MGI:2444499, MGI:2674131, RIKEN cDNA 5730409E15 gene, RIKEN cDNA A630035H13 gene, cDNA sequence BC013565	NHS-like 1
Nkx6-2	NM_183248.3	Glx, MGD-MRK-10330, MGI:95870, Nkx6.2, glial and testis specific homeobox gene	NK6 homeobox 2
Nmnat2	NM_175460.3	Ai843915, D03004109Rik, MGI:2138339, PNAT1, RIKEN cDNA D03004109 gene, expressed sequence Ai843915, mKIAA0479	nicotinamide nucleotide adenyltransferase 2
Nmral1	NM_026393.1	1110025F24Rik, Ai256624, MGI:2146395, RIKEN cDNA 1110025F24 gene, expressed sequence Ai256624	Nmra-like family domain containing 1
Npc1	NM_008720.2	A430089E03Rik, C85354, D18Erttd139e, D18Erttd723e, DNA segment, Chr 18, ERATO Doi 139, expressed, DNA segment, Chr 18, ERATO Doi 723, expressed, MGD-MRK-11760, MGD-MRK-14533, MGI:1098628, MGI:1289269, MGI:2147413, MGI:2444276, MGI:2686738, MGI:96758, MGI:98383, RIKEN cDNA A430089E03 gene, expressed sequence C85354, lcsd, lysosomal cholesterol storage disease, neuroscience mutagenesis facility, 164, nfm164, sphingomyelinosis, spm 2700012J19Rik, AA408070, AU045843, HE1, MGI:2144722, MGI:2144970, RIKEN cDNA 2700012J19 gene, expressed sequence AA408070, expressed sequence AU045843	NPC intracellular cholesterol transporter 1
Npc2	NM_023409.4	MGD-MRK-16454, MGI:99669, Narp, narp, neuro activity regulated petaxin, np2	NPC intracellular cholesterol transporter 2
Nptx2	NM_016789.3	BC011468, MGC:121117, MGC:18994, cDNA sequence BC011468	neuronal pentraxin 2
Nrbp2	NM_144847.1	4933401A11Rik, 9330112C09Rik, D12Bwg0831e, DNA segment, Chr 12, Brigham & Women's Genetics 0831 expressed, MGD-MRK-34038, MGI:106346, MGI:1921683, MGI:1924757, RIKEN cDNA 4933401A11 gene, RIKEN cDNA 9330112C09 gene, neurexin III alpha, neurexin III beta	nuclear receptor binding protein 2
Nrxn3	NM_001198587.1	Ai316878, AU020090, AU067812, MGD-MRK-25994, MGI:2144115, MGI:2144400, MGI:2144446, N-ethylmaleimide sensitive factor, SKD2, expressed sequence Ai316878, expressed sequence AU020090, expressed sequence AU067812	neurexin III
Nsf	NM_008740.2		N-ethylmaleimide sensitive fusion protein
Ntrk2	NM_001025074.1	Ai848316, C030027L06Rik, MGD-MRK-12943, MGD-MRK-15126, MGI:1924721, MGI:2145299, RIKEN cDNA C030027L06 gene, Trkb, expressed sequence Ai848316, trkb, tyrosine protein kinase receptor 2700010L10Rik, 8430423A01Rik, Ai647518, C78391, MGI:1919821, MGI:2138310, MGI:2138671, Nuck s, RIKEN cDNA 2700010L10 gene, RIKEN cDNA 8430423A01 gene, expressed sequence Ai647518, expressed sequence C78391	neurotrophic tyrosine kinase, receptor, type 2
Nucks1	NM_001145804.1	25kDa, 3110048P04Rik, 5730530I16Rik, AU014860, AW549947, Cpsf5, MGI:1917892, MGI:2142673, MGI:2142804, RIKEN cDNA 3110048P04 gene, RIKEN cDNA 5730530I16 gene, cleavage and polyadenylation specific factor 5, expressed sequence AU014860, expressed sequence AW549947	nuclear casein kinase and cyclin-dependent kinase substrate 1
Nudt121	NM_026623.3	1190002C07Rik, Ai462474, MGI:2140905, RIKEN cDNA 1190002C07 gene, expressed sequence Ai462474	nudix (nucleoside diphosphate linked moiety X)-type motif 21
Nudt9	NM_028794.3		nudix (nucleoside diphosphate linked moiety X)-type motif 9

		1110001M19RIK,9530056D24RIK,AI256692,AI461731,MGI:1925921,MGI:2144097,MGI:2144180,RIKEN cDNA 1110001M19 gene,RIKEN cDNA 9530056D24 gene,expressed sequence	nuclear fragile X mental retardation protein interacting protein 2
Nufip2	NM_001024205.2	AI256692,expressed sequence AI461731	
Ogfd3	NM_025402.2	111003102RIK,RIKEN cDNA 111003102 gene	2-oxoglutarate and iron-dependent oxygenase domain containing 3
Olfm3	NM_153157.3	B230206G2RIK,MGI:2443850,RIKEN cDNA B230206G2 gene,optimedrin	olfactomedin 3
Opalin	NM_153520.1	Tmem10,Tmp10,transmembrane protein 10	oligodendrocytic myelin paranodal and inner loop protein
		2900075015RIK,AI844366,B930023M13RIK,Gm181,LOC235104,MGC:99974,MGD-MRK-12968,MGI:1920295,MGI:2143136,MGI:2443164,MGI:2685027,Obcam,RIKEN cDNA 2900075015 gene,RIKEN cDNA B930023M13 gene,expressed sequence AI844366, gene model 181, (NCBI),opioid binding cell adhesion molecule	opioid binding protein/cell adhesion molecule-like
Opcml	NM_177906.4	Orc3,origin of replication 3 homolog (S. cerevisiae),origin recognition complex, subunit 3-like (S. cerevisiae)	origin recognition complex, subunit 3
Orc3	NM_015824.4	493043118RIK,AI449692,D8Ertd69e,DNA segment, Chr 8, ERATO Doi 69, expressed,MGI:1921195,MGI:2138957,RIKEN cDNA 493043118 gene,expressed sequence AI449692,mKIAA1046	OTU domain containing 4
Otud4	NM_001081164.1	2900060822RIK,4930463P07RIK,AI462125,MGI:1920219,MGI:1922172,MGI:2139730,RIKEN cDNA 2900060822 gene,RIKEN cDNA 4930463P07 gene,Za20d1,expressed sequence AI462125,zinc finger, A20 domain containing 1	OTU domain containing 7B
Otud7b	NM_001025613.1	MGD-MRK-13221,MGI:97534,PAD type II,Pdi,Pdi2,mKIAA0994,peptidyl arginine deiminase	peptidyl arginine deiminase, type II
Padi2	NM_008812.2	AW045634,MGI:1203486,MGI:2142185,PAK-1,Paka,activated protein kinase alpha,expressed sequence AW045634	p21 (RAC1) activated kinase 1
Pak1	NM_011035.2	MGD-MRK-33717,MGI:106033,PAK-3	p21 (RAC1) activated kinase 3
Pak3	NM_001195046.1	A4960621,AI256638,ASIP,D8Ertd580e,DNA segment, Chr 8, ERATO Doi 580, expressed,MGI:1261826,MGI:2142456,MGI:2142486,PAR-3,Par3,Pard3a,expressed sequence A4960621,expressed sequence AI256638	par-3 family cell polarity regulator
Pard3	NM_001013581.2		
Parl	NM_001005767.4	D16Ertd607e,DNA segment, Chr 16, ERATO Doi 607, expressed,PRO2207,PSARL1,PSENP2,Psarl 2210012L08RIK,9130213B05RIK,MGI:1921508,MGI:2141355,RIKEN cDNA 2210012L08 gene,RIKEN cDNA 9130213B05 gene,W91666,expressed sequence W91666	presenilin associated, rhomboid-like
Parm1	NM_145562.2	4732463H20RIK,RIKEN cDNA 4732463H20 gene	prostate androgen-regulated mucin-like protein 1
Pbx1p1	NM_146131.2	120000319RIK,AlphaCP-4,MGI:1914112,RIKEN cDNA 120000319 gene	pre B cell leukemia transcription factor interacting protein 1
Pcbp4	NM_021567.5	150000112RIK,A73000317RIK,AU021802,C530050I23RIK,C630029H24RIK,Gm1213,Gm297,LOC382930,MGI:1916209,MGI:2444471,MGI:2685143,MGI:2686059,MGI:3510991,RIKEN cDNA 150000112 gene,RIKEN cDNA A73000317 gene,RIKEN cDNA C530050I23 gene,RIKEN cDNA C630029H24 gene,expressed sequence AU021802, gene model 1213, (NCBI), gene model 297, (NCBI)	poly(r)C binding protein 4
Pcdh9	NM_001081377.1	6330411F23RIK,AI839700,MGD-MRK-12803,MGD-MRK-12805,MGD-MRK-13192,MGD-MRK-13300,MGI:1918009,MGI:2139063,Nec-2,Nec2,PC2,Phpp-2,RIKEN cDNA 6330411F23 gene,SPC2,expressed sequence AI839700,neuroendocrine convertase 2,prehormone processing proteinase,prohormone convertase 2	protocadherin 9
Pcsk2	NM_008792.3		
		Bench to Bassinet Program (B2B/CVDC), mutation 2830 Cecilia Lo,C86343,MGD-MRK-23731,MGI:2142365,MGI:5618288,Mutant line 2830,PACE4,Pace4,SPC4,b2b2830Clo,expressed sequence C86343,paired basic amino acid cleaving system 4	proprotein convertase subtilisin/kexin type 6
Pcsk6	NM_011048.1	BC060677,cDNA sequence BC060677	prenylcysteine oxidase 1 like
Pcyox1	NM_172832.1	AV299538,Alg2,MA-3,MGD-MRK-38328,MGI:2145399,PS2,alg-2,apoptosis linked gene 2,expressed sequence AV299538	programmed cell death 6
Pdcd6	NM_011051.3	AI987702,AW125737,MGI:2139118,MGI:2139319,expressed sequence AI987702,expressed sequence AW125737	phosphodiesterase 1A, calmodulin-dependent
Pde1a	NM_001159582.1	MGD-MRK-13207	phosphodiesterase 1B, Ca2+-calmodulin dependent
Pde1b	NM_008800.1	MGD-MRK-37456	phosphodiesterase 1C
Pde1c	NM_011054.4	AI551852,MGI:2141996,Pde8,expressed sequence AI551852,phosphodiesterase 8	phosphodiesterase 8A
Pde8a	NM_008803.2		
		1110001A05RIK,AI987914,C87059,Enh,Enh2,Enh3,MGI:1914158,MGI:1927491,MGI:1927492,MGI:2139847,MGI:2140101,RIKEN cDNA 1110001A05 gene,enigma homolog 2 (R. norvegicus),enigma homolog 3 (R. norvegicus),expressed sequence AI987914,expressed sequence C87059	PDZ and LIM domain 5
Pdlim5	NM_001190857.1	C85791,CD31 antigen,Cd31,MGD-MRK-13226,MGD-MRK-1848,MGI:2144682,PECAM-1,expressed sequence C85791	platelet/endothelial cell adhesion molecule 1
Pecam1	NM_008816.2	Hftm,MGI:3522286,half-time,m-rigui,mPer1	period circadian clock 1
Per1	NM_011065.4	peroxisome biogenesis factor 16	peroxisomal biogenesis factor 16
Pex16	NM_145122.2	E330010H22RIK,MGI:2442800,RIKEN cDNA E330010H22 gene,uPKF-2	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3
Pfkfb3	NM_133232.2	2900019M05RIK,AI854313,MGI:1914507,MGI:2142643,RIKEN cDNA 2900019M05 gene,expressed sequence AI854313	piggyBac transposable element derived 5
Pgbd5	NM_171824.2	AU041016,D330037A14RIK,LLSA,RIKEN cDNA D330037A14 gene,expressed sequence AU041016,mKIAA0638	pleckstrin homology like domain, family B, member 1
Phldb1	NM_153537.4	AI836256,PH domain and leucine rich repeat protein phosphatase,Phpp,Plekhe1,expressed sequence AI836256,mKIAA0606,pleckstrin homology domain containing, family E (with leucine rich repeats) member 1	PH domain and leucine rich repeat protein phosphatase 1
Phlpp1	NM_133821.3	AW049870,C630010D02RIK,MGI:2154792,PAHX-AP#1,PAHX-AP1,RIKEN cDNA C630010D02 gene,expressed sequence AW049870	phytanoyl-CoA hydroxylase interacting protein
Phyhip	NM_145981.3	Pik4ca,phosphatidylinositol 4-kinase, catalytic, alpha polypeptide	phosphatidylinositol 4-kinase alpha
Pi4ka	NM_001001983.2	MGC:19382,MGC:36413,MGC:36616,MGD-MRK-9805,MGD-MRK-9806,MGI:95538,fit-1,fitness 1	phosphatidylinositol binding clathrin assembly protein
Picalm	NM_001252520.1	AA414921,MGD-MRK-13305,MGI:2145159,P13K,expressed sequence AA414921,p50alpha,p55alpha,p85alpha	phosphoinositide-3-kinase regulatory subunit 1
Pik3r1	NM_001024955.1	AW742916,MGI:2139412,Pip5k2a,expressed sequence AW742916,phosphatidylinositol-4-phosphate 5-kinase, type II, alpha	phosphatidylinositol-5-phosphate 4-kinase, type II, alpha
Pip4k2a	NM_008845.4	C78643,HRAS like suppressor 3,Hrasl3,MGI:2147787,expressed sequence C78643	phospholipase A2, group XVI
Pia2g16	NM_139269.2	A430081P20RIK,AI414265,MGI:2141928,RIKEN cDNA A430081P20 gene,expressed sequence AI414265	pleckstrin homology domain containing, family A member 7
Plekha7	NM_172743.2	BC030417,MGC40768,cDNA sequence BC030417	pleckstrin homology domain containing, family G (with RhoGef domain) member 3
Plekhg3	NM_153804.4	AV308913,C77772,D630024D12RIK,MGI:2145084,RIKEN cDNA D630024D12 gene,expressed sequence AV308913,expressed sequence C77772,mKIAA1200	pleckstrin homology domain containing, family H (with MyTH4 domain) member 1
Plekhh1	NM_181073.3	0610010I06RIK,AV001002,MGI:2142726,RIKEN cDNA 0610010I06 gene,Tm45f11,expressed sequence AV001002,plasmolipin,transmembrane 4 superfamily member 11	plasma membrane proteolipid
Plip	NM_026385.3	AI414586,LH3,MGI:2140859,expressed sequence AI414586,lysyl hydroxylase 3	procollagen-lysine, 2-oxoglutarate 5-dioxygenase 3
Plod3	NM_011962.3		
		DM20,MGD-MRK-11530,MGD-MRK-12562,MGD-MRK-13363,MGD-MRK-14219,Pip,jmpy,jp,msd,myelin synthesis deficiency,proteolipid protein (myelin),rsh,rump shaker	proteolipid protein (myelin) 1
Pip1	NM_011123.2		
		AW121214,Ly102,MGI:2141647,PC,Pclp1,Podxl1,expressed sequence AW121214,podocalyxin	podocalyxin-like
Podxl	NM_013723.3	9130401E23RIK,BA552,RIKEN cDNA 9130401E23 gene,mKIAA1513	pogo transposable element with KRAB domain
Pogk	NM_001142948.1	6330405I24RIK,AI481612,MGD-MRK-35146,MGI:1926213,MGI:2141429,RIKEN cDNA 6330405I24 gene,expressed sequence AI481612	paraoxonase 2
Pon2	NM_183308.2	1110023P21RIK,RIKEN cDNA 1110023P21 gene,Rpp29	processing of precursor 4, ribonuclease P/MRP family, (S. cerevisiae)
Pop4	NM_025390.4	4930564J03RIK,CYP-40,MGD-MRK-35888,MGI:107419,Ppid,RIKEN cDNA 4930564J03 gene,cyclophilin 4D,cytoplasmic cyclophilin D,peptidylprolyl isomerase D-like	peptidylprolyl isomerase D (cyclophilin D)
Ppid	NM_026352.3	MGD-MRK-31041	protoporphyrinogen oxidase
Ppox	NM_008911.2	MGD-MRK-28171,PP1C gamma,PP1C gamma 1,PP1C gamma 2	protein phosphatase 1 catalytic subunit gamma
Ppp1cc	NM_013636.3		
		0610025N14RIK,2310007G06RIK,4930440J04RIK,5430408E15RIK,D16Ertd248e,DNA segment, Chr 16, ERATO Doi 248, expressed,J-2,MGI:1098743,MGI:1913595,MGI:1918669,MGI:1922115,RIKEN cDNA 0610025N14 gene,RIKEN cDNA 2310007G06 gene,RIKEN cDNA 4930440J04 gene,RIKEN cDNA 5430408E15 gene	protein phosphatase 1, regulatory inhibitor subunit 2
Ppp1r2	NM_025800.3	1110063J16RIK,CalnB,Cnabeta,Cnab,MGD-MRK-1737,MGD-MRK-35624,MGI:1913465,PP2BA beta,RIKEN cDNA 1110063J16 gene,calcineurin, beta subunit	protein phosphatase 3, catalytic subunit, beta isoform
Ppp3cb	NM_008914.2		
		CaNB1,Cnb1,MGD-MRK-35633,PP2B beta 1	protein phosphatase 3, regulatory subunit B, alpha isoform (calcineurin B, type I)
Ppp3r1	NM_024459.2	BE691708,MGI:3034166,expressed sequence BE691708	protein phosphatase 4, regulatory subunit 2
Ppp4r2	NM_182939.4	7330409J17RIK,MGI:1925348,RIKEN cDNA 7330409J17 gene,SLRR2A	proline arginine-rich end leucine-rich repeat
Prelp	NM_054077.4		

Prex1	NM_177782.3	BC067047,P-REX1,cDNA sequence BC067047 6230420N16RIK,AI316880,AI553603,C030045D06RIK,DEP domain containing 2,Depcd2,MGI:1924907,MGI:2138203,MGI:2138289,RIKEN cDNA 6230420N16 gene,RIKEN cDNA C030045D06 gene,expressed sequence AI316880,expressed sequence AI553603	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1
Prex2	NM_029525.1	1110058P22RIK,AW215793,MGI:2146210,MGI:5300247,Mutant line O19,RIKEN cDNA 1110058P22 gene,b2b019C10,expressed sequence AW215793,mpk1	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 2
Prickle1	NM_001033217.4	AA571379,BB036179,MGD-MRK-37454,MGI:2145917,MGI:2146255,Prkac,expressed sequence	prickle planar cell polarity protein 1
Prkag1	NM_016781.2	AA571379,expressed sequence BB036179,protein kinase, AMP-activated, gamma	protein kinase, AMP-activated, gamma 1 non-catalytic subunit
Prkar1b	NM_008923.2	A1385716,MGD-MRK-13610,MGI:2140854,RIbeta,expressed sequence AI385716	protein kinase, cAMP dependent regulatory, type I beta
Prkca	NM_011101.3	A1875142,MGD-MRK-13327,MGI:2144325,Prkca,expressed sequence AI875142	protein kinase C, alpha
Prkcb	NM_008855.2	A130082F03RIK,MGD-MRK-13328,MGI:2442598,PKC-Beta,Prkcb,Prkcb1,Prkcb2,RIKEN cDNA A130082F03 gene,protein kinase C, beta 1	protein kinase C, beta
Prkcd	NM_008859.2	A130035A12RIK,AW494342,MGD-MRK-13333,MGI:2139356,MGI:2442369,PKC theta,PKC-0,PKC-theta,PKCtheta,Prkcd,RIKEN cDNA A130035A12 gene,expressed sequence AW494342	protein kinase C, theta
Prkdc	NM_008859.2	4930557O20RIK,5730497N19RIK,MGC:47171,MGI:1917857,PKD3,Prkcn,RIKEN cDNA 4930557O20 gene,RIKEN cDNA 5730497N19 gene,protein kinase C, nu	protein kinase D3
Prmt1	NM_001252476.1	6720434D09RIK,AW214366,Hrmt1I2,MGD-MRK-36423,MGI:1924993,MGI:2142221,RIKEN cDNA 6720434D09 gene,expressed sequence AW214366,heterogeneous nuclear ribonucleoproteins methyltransferase-like 2 (S. cerevisiae),protein arginine-N-methyltransferase	protein arginine N-methyltransferase 1
Prox1	NM_011173.2	AW214361,MGI:2146630,expressed sequence AW214361,protein 5	protein 5 (alpha)
Prr18	NR_028280.1	9630019K15RIK,RIKEN cDNA 9630019K15 gene	proline rich 18
Prr5l	NM_001110849.1	2600010E01RIK,4833411004RIK,MGI:1921858,RIKEN cDNA 2600010E01 gene,RIKEN cDNA 4833411004 gene	proline rich 5 like
Psen1	NM_008943.2	A03h,MGD-MRK-35912,MGI:107441,PS-1,PS1_5182,alzheimer disease 3 homolog,presenilin-1	presenilin 1
PsmA4	NM_011966.3	C9	proteasome (prosome, macropain) subunit, alpha type 4
PsmA5	NM_011967.3	AU045357,AW108089,D4Wsu33e,DNA segment, Chr 4, Wayne State University 33, expressed,HC7 I,MGD-MRK-34196,MGI:106502,MGI:2140499,MGI:2140555,expressed sequence	proteasome (prosome, macropain) subunit, alpha type 5
PsmB2	NM_011970.4	AU045357,expressed sequence AW108089	proteasome (prosome, macropain) subunit, beta type 2
PsmC1	NM_008947.3	A1325227,MGD-MRK-33738,MGI:2144794,P26s4,Rpt2/S4,S4,expressed sequence AI325227,rpt2 230001E01RIK,AI451058,MGI:2145653,RIKEN cDNA 230001E01 gene,expressed sequence AI451058	protease (prosome, macropain) 26S subunit, ATPase 1
PsmC6	NM_025959.3	6720456J22RIK,AA407360,AL033291,AL033322,AL033323,C76433,EST C76433,MGI:1353608,MGI:1915322,MGI:2139137,MGI:2141806,MGI:2142104,MGI:2145720,RIKE N cDNA 6720456J22 gene,expressed sequence AA407360,expressed sequence AL033291,expressed sequence AL033322,expressed sequence AL033323	protease (prosome, macropain) 26S subunit, ATPase, 6
PsmD8	NM_026545.3	AW552102,Down syndrome critical region homolog 2 (human),Dscr2,MGI:2146658,expressed sequence AW552102	protease (prosome, macropain) 26S subunit, non-ATPase, 8
PsmG1	NM_019537.2	AA407203,MGD-MRK-13658,MGI:2143456,Ptb,expressed sequence AA407203,hnRNP I,polypyrimidine tract binding protein	proteasome (prosome, macropain) assembly chaperone 1
Ptpb1	NM_001077363.2	AA407203,MGD-MRK-13658,MGI:2143456,Ptb,expressed sequence AA407203,hnRNP I,polypyrimidine tract binding protein	polypyrimidine tract binding protein 1
Ptp4a2	NM_001164745.1	PrI-2	protein tyrosine phosphatase 4a2
Ptpn5	NM_001163565.1	MGD-MRK-13676,Step	protein tyrosine phosphatase, non-receptor type 5
Ptpn9	NM_008985.2	IA-2,MGD-MRK-19670	protein tyrosine phosphatase, receptor type, N
Pttg1ip	NM_145925.2	1810010L20RIK,AI314311,AU018448,C79540,MGI:1916311,MGI:2143562,MGI:2143728,MGI:2143 927,RIKEN cDNA 1810010L20 gene,expressed sequence AI314311,expressed sequence AU018448,expressed sequence C79540	pituitary tumor-transforming 1 interacting protein
Pvalb	NM_013645.3	MGD-MRK-13692,PV,Parv,Pva	parvalbumin
Pycrl	NM_025412.2	1110058B13RIK,2700073G24RIK,MGI:1914445,RIKEN cDNA 1110058B13 gene,RIKEN cDNA 2700073G24 gene	pyrroline-5-carboxylate reductase-like
Qdpr	NM_024236.2	2610008L04RIK,D5Ert2371e,DNA segment, Chr 5, ERATO Doi 371, expressed,MGD-MRK-13735,MGI:1196320,MGI:1917283,RIKEN cDNA 2610008L04 gene	quinoid dihydropteridine reductase
Qk	NM_001159517.1	111003F05RIK,MGD-MRK-11678,MGD-MRK-11696,MGD-MRK-13738,MGI:1913395,MGI:96711,Qk,RIKEN cDNA 111003F05 gene,[17]-17Wis,17Wis1,lethal, Chr 17, U Wisconsin 1	quaking
Rab13	NM_026677.4	0610007N03RIK,B230212B15RIK,MGI:1915578,MGI:1924746,RIKEN cDNA 0610007N03 gene,RIKEN cDNA B230212B15 gene	RAB13, member RAS oncogene family
Rab27b	NM_030554.3	2310021G14RIK,B130064M09RIK,MGI:1916874,MGI:2445187,RIKEN cDNA 2310021G14 gene,RIKEN cDNA B130064M09 gene	RAB27B, member RAS oncogene family
Rab31	NM_133685.1	1700093E07RIK,AI415285,MGI:2146845,RIKEN cDNA 1700093E07 gene,expressed sequence AI415285	RAB31, member RAS oncogene family
Rab3a	NM_009001.6	MGD-MRK-13746	RAB3A, member RAS oncogene family
Rab3c	NM_023852.5	2700062I01RIK,3110015808RIK,3110037E15RIK,AI850886,MGI:1920367,MGI:1924255,MGI:21453 03,RIKEN cDNA 2700062I01 gene,RIKEN cDNA 3110015808 gene,RIKEN cDNA 3110037E15 gene,expressed sequence AI850886	RAB3C, member RAS oncogene family
Rab6b	NM_173781.4	A1844641,C330006L04RIK,D9Bwg185e,DNA segment, Chr 9, Brigham & Women's Genetics 0185 expressed,MGD-MRK-35748,MGI:1924738,MGI:2143137,RIKEN cDNA C330006L04 gene,expressed sequence AI844641	RAB6B, member RAS oncogene family
Ran	NM_009391.3	gene,expressed sequence AI844641	RAN, member RAS oncogene family
Ranbp1	NM_011239.2	Hpal1 tiny fragments locus 9a,Htf9a,MGD-MRK-10994	RAN binding protein 1
Rasal2	NM_177644.5	A330066M24RIK,RIKEN cDNA A330066M24 gene	RAS protein activator like 2
Rasgrp3	NM_001166493.1	BC066069.gm327,LOC240168,MGC:74365,MGI:2685173,cDNA sequence BC066069.gene model 327, (NCBI)	RAS, guanyl releasing protein 3
Rb1	NM_009029.2	MGD-MRK-13784,MGD-MRK-13785,Rb,Rb-1,pRb,retinoblastoma 1	RB transcriptional corepressor 1
Rbfox2	NM_001110827.2	2810460A15RIK,AA407676,AI118529,Fbm2,Fbh,Fyn-binding molecule 2,MGI:1920085,MGI:2145891,MGI:2145951,MGI:894685,RIKEN cDNA 2810460A15 gene,RNA binding motif protein 9,Rbm9,expressed sequence AA407676,expressed sequence AI118529,fox-1 homolog (C. elegans)	RNA binding protein, fox-1 homolog (C. elegans) 2
Rbm45	NM_153405.2	Drb1,Drbp1,G430095G15RIK,MGI:2443869,RIKEN cDNA G430095G15 gene,developmentally regulated RNA binding protein 1	RNA binding motif protein 45
Rbm48	NM_172991.4	AW548102,C030048B08RIK,MGI:2141222,RIKEN cDNA C030048B08 gene,expressed sequence AW548102	RNA binding motif protein 48
Rcc1	NM_133878.3	4931417M11RIK,AI326872,Chc1,MGI:2140246,RIKEN cDNA 4931417M11 gene,chromosome condensation 1,expressed sequence AI326872	regulator of chromosome condensation 1
Rdx	NM_001104617.1	AA516625,MGD-MRK-13819,MGI:2142943,expressed sequence AA516625	radixin
Reep1	NM_178608.4	AW558420,C87808,D6Ert253e,DNA segment, Chr 6, ERATO Doi 253, expressed,MGI:2141713,MGI:2141789,expressed sequence AW558420,expressed sequence C87808	receptor accessory protein 1
Reep3	NM_001204915.1	AI265725,AW742655,D10Ucla1,DNA segment, Chr 10, University of California at Los Angeles 1,MGD-MRK-2687,MGI:2143554,MGI:2143880,expressed sequence AI265725,expressed sequence AW742655	receptor accessory protein 3
Relt1	NM_145923.2	AA536743,expressed sequence AA536743	RELT-like 1
Reps1	NM_001111065.1	AB039973,BB161292,MGI:2143517,MGI:2143899,expressed sequence AB039973,expressed sequence BB161292	RaiBP1 associated Eps domain containing protein
Rfx4	NM_027689.3	4933412G19RIK,RIKEN cDNA 4933412G19 gene	regulatory factor X, 4 (influences HLA class II expression)
Rgs4	NM_009062.3	AA004315,AA597169,EST AA004315,EST AA597169,ESTM48,ESTM50,MGD-MRK-37452,MGI:1334420,MGI:1334426,expressed sequence tag mouse EST 48,expressed sequence tag mouse EST 50	regulator of G-protein signaling 4
Rgs7	NM_011880.3	AW558420,expressed sequence AW558420	regulator of G-protein signaling 7
Rgs7bp	NM_029879.2	A930030I01RIK,AI842293,D13Bwg1146e,DNA segment, Chr 13, Brigham & Women's Genetics 1146 expressed,MGD-MRK-34026,MGI:1924468,MGI:2145292,R7bp,RIKEN cDNA A930030I01 gene,expressed sequence AI842293	regulator of G-protein signalling 7 binding protein
Rhobtb3	NM_028493.2	1700040C17RIK,2610033K01RIK,4930503C18RIK,AI317148,AW208826,MGI:1916481,MGI:1922044,MGI:2145203,MGI:2145421,RIKEN cDNA 1700040C17 gene,RIKEN cDNA 2610033K01 gene,RIKEN cDNA 4930503C18 gene,expressed sequence AI317148,expressed sequence AW208826,mkIAA0878	Rho-related BTB domain containing 3
Rhoc	NM_007484.2	AI324259,Arh9,Arhc,MGD-MRK-33711,MGI:2139675,aplysia ras homolog 9 (RhoC),expressed sequence AI324259,ras homolog gene family, member C	ras homolog family member C
Rhoq	NM_145491.2	Arhq,TCl0,ras homolog gene family, member Q	ras homolog family member Q

Rhou	NM_133955.4	2310026M05RIK,AI182090,Arhu,CD42L1,MGI:2142472,RIKEN cDNA 2310026M05 gene,WRCHE-1,WRCHE1,expressed sequence AI182090,mG28K,ras homolog gene family, member U	ras homolog family member U
Rin2	NM_028724.4	2010003K16RIK,4632403N06RIK,AW821980,MGI:1917119,MGI:2139415,RASSFA,RIKEN cDNA	
Rnf13	NM_001113413.1	2010003K16 gene,RIKEN cDNA 4632403N06 gene,expressed sequence AW821980	Ras and Rab interactor 2
Rnf141	NM_025999.3	2010001H16RIK,MGI:1917075,RIKEN cDNA 2010001H16 gene,Rzf	ring finger protein 13
Rras	NM_009101.2	2610110L04RIK,AA792898,AU022812,MGI:2141850,MGI:2142144,RIKEN cDNA 2610110L04 gene,ZFP36,ZNF230,expressed sequence AA792898,expressed sequence AU022812	ring finger protein 141 related RAS viral (r-ras) oncogene
Rreb1	NM_001177868.1	A1573426,MGD-MRK-14208,MGI:2142000,expressed sequence A1573426	
Rtkn	NM_133641.2	1110037N09RIK,AA414966,8930013M22RIK,MGI:1916000,MGI:2145160,RIKEN cDNA 1110037N09 gene,RIKEN cDNA B930013M22 gene,expressed sequence AA414966	ras responsive element binding protein 1 rhotekin
Rtn1	NM_001007596.1	0710005K15RIK,4930441F12RIK,MGC:40985,MGI:1913343,MGI:1926049,MGI:2145135,Nsp,R75279,RIKEN cDNA 0710005K15 gene,RIKEN cDNA 4930441F12 gene,Rtn1-a,Rtn1-b,Rtn1-c,expressed sequence R75279	reticulum 1
Rundc3a	NM_001252347.1	MGD-MRK-35838	RUN domain containing 3A
S100a11	NM_016740.3	Emap1,MGD-MRK-19682,MGI:102775,MGI:1353430,S100a14,S100c,cal,calgizarin,endothelial monocyte activating polypeptide 1	S100 calcium binding protein A11
S1pr1	NM_007901.4	A1849002,Edg1,MGI:2138817,S1P,S1P1,endothelial differentiation sphingolipid G-protein-coupled receptor 1,endothelial differentiation sphingolipid G-protein-coupled receptor 1,expressed sequence A1849002	sphingosine-1-phosphate receptor 1
Samd12	NM_177225.4	AB30094I09RIK,RIKEN cDNA AB30094I09 gene	sterile alpha motif domain containing 12
Samd4	NM_028966.3	1700024G08RIK,1700111L17RIK,4933436G17RIK,MGI:1916635,MGI:1925725,MGI:3624555,RIKEN cDNA 1700024G08 gene,RIKEN cDNA 1700111L17 gene,RIKEN cDNA 4933436G17 gene,Smaug,sunk,sunken	sterile alpha motif domain containing 4
Sash1	NM_175155.4	1100001C18RIK,2500002E12RIK,A330076K04RIK,MGI:1915682,MGI:2444711,RIKEN cDNA 1100001C18 gene,RIKEN cDNA 2500002E12 gene,RIKEN cDNA A330076K04 gene	SAM and SH3 domain containing 1
Sat1	NM_009121.4	AA617398,MGD-MRK-14295,MGI:2146776,expressed sequence AA617398	spermidine/spermine N1-acetyl transferase 1
Scaf8	NM_134123.3	A630086M08RIK,A930036P18RIK,AA408306,AI447644,AI448652,AU015035,MGI:2146750,MGI:2146856,MGI:2146860,MGI:2146966,MGI:21443128,RIKEN cDNA A630086M08 gene,RIKEN cDNA A930036P18 gene,RNA binding motif protein 16,Rbm16,expressed sequence AA408306,expressed sequence AI447644,expressed sequence AI448652,expressed sequence AU015035,mKIAA1116	SR-related CTD-associated factor 8
Scai	NM_178778.3	A930041I02RIK,AI662729,MGI:2139039,RIKEN cDNA A930041I02 gene,expressed sequence AI662729	suppressor of cancer cell invasion
Scamp2	NM_022813.3	A1875466,MGI:2143165,Sc2,expressed sequence A1875466	secretory carrier membrane protein 2
Scarb2	NM_007644.3	9330185J12RIK,CD36 antigen (collagen type I receptor, thrombospondin receptor)-like 2,Cd361,LGP85,LIMP II,LIMP-2,MGI:2445131,RIKEN cDNA 9330185J12 gene	scavenger receptor class B, member 2
Scnt1	NM_001081411.1	2610207F23RIK,4931421F20RIK,CAGGS-SB10,MGI:1918225,MGI:3612988,RIKEN cDNA 2610207F23 gene,RIKEN cDNA 4931421F20 gene,Tg(AC1B-sb10)1Dla,Tg(CAG-sb10)1Dla,transgene insertion 1, David A Largaespada	sodium channel and clathrin linker 1
Scn8a	NM_011323.3	A1853486,C630029C19RIK,MGD-MRK-12187,MGD-MRK-24035,MGI:2146092,MGI:2152446,MGI:2183468,MGI:2429910,MGI:2444216,MGI:2671467,MGI:3612947,NMF335,Nav1.6,RIKEN cDNA C630029C19 gene,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
Scoc	NM_019708.3	0610011C06RIK,2810002J11RIK,AA415030,MGI:1914876,MGI:1923509,MGI:2142423,RIKEN cDNA 0610011C06 gene,RIKEN cDNA 2810002J11 gene,expressed sequence AA415030	short coiled-coil protein
Sec23ip	NM_001029982.2	D7Ertd373e.DNA segment, Chr 7, ERATO Doi 373, expressed,MGI:1196380,p125	Sec23 interacting protein
Secisbp2l	NM_177608.3	3110001I20RIK,AI504340,MGI:2138988,RIKEN cDNA 3110001I20 gene,expressed sequence AI504340	SECIS binding protein 2-like
Sema6a	NM_018744.2	A730020P05RIK,AI851735,MGI:2147277,MGI:2443196,RIKEN cDNA A730020P05 gene,Sema6A-1,Sema6Vla,expressed sequence AI851735,sema,semaphorin Q	sema domain, transmembrane domain (TM), and cytoplasmic domain, (semaphorin) 6A
Serpinb1a	NM_025429.2	1190005M04RIK,AI325983,EIA,ELANH2,LEI,M/NEI,MGI:2145215,MNEI,RIKEN cDNA 1190005M04 gene,expressed sequence AI325983,ovalbumin	serine (or cysteine) peptidase inhibitor, clade B, member 1a
Serpinj1	NM_009776.3	C1 inhibitor,C1INH,C1nh,complement component 1 inhibitor	serine (or cysteine) peptidase inhibitor, clade G, member 1
Sestd1	NM_175465.6	1500031J16RIK,MGC:51459,RIKEN cDNA 1500031J16 gene	SEC14 and spectrin domains 1
Sez6l2	NM_144926.4	A1835913,AW121566,MGI:2142033,MGI:2142207,Psk1,expressed sequence A1835913,expressed sequence AW121566,type 1 transmembrane receptor (seizure-related protein)	seizure related 6 homolog like 2
Sft2d2	NM_145512.4	2010005O13RIK,AI506168,AW561909,MGI:1930799,MGI:2138282,RIKEN cDNA 2010005O13 gene,cDNA sequence, clone 3-72,cl-45,expressed sequence AI506168	SFT2 domain containing 2
Sh3gl2	NM_019535.2	9530001L19RIK,AI120490,AW555077,B930049H17RIK,EEEN-B1,MGI:2140194,MGI:2140599,MGI:2441867,MGI:2445166,RIKEN cDNA 9530001L19 gene,RIKEN cDNA B930049H17 gene,SH3 domain protein 2A,Sh3d2a,endothelin A1,endothelin I,expressed sequence AI120490,expressed sequence AW555077	SH3-domain GRB2-like 2
Sh3glb1	NM_019464.2	AA409932,AI314629,AU015566,Bif-1,Endophilin B1,MGI:2139573,MGI:2139664,MGI:2139863,expressed sequence AA409932,expressed sequence AI314629,expressed sequence AU015566	SH3-domain GRB2-like B1 (endophilin)
Sirt2	NM_022432.4	5730427M03RIK,MGI:1915014,RIKEN cDNA 5730427M03 gene,SIR2L2,Sir2,silent mating type information regulation 2, (S.cerevisiae, homolog)-like	sirtuin 2
Skp1a	NM_011543.4	2610043E24RIK,2610206H23RIK,MGD-MRK-24460,MGI:1917574,MGI:1923841,RIKEN cDNA 2610043E24 gene,RIKEN cDNA 2610206H23 gene,Tceb1,p19Skp1,transcription elongation factor B (SII), polypeptide 1-like	S-phase kinase-associated protein 1A
Sla	NM_001029841.1	MGD-MRK-25621,Slap,Slap-1	src-like adaptor
Slain1	NM_198014.2	9630044O09RIK,AA675320,AW742596,MGI:2145843,RIKEN cDNA 9630044O09 gene,expressed sequence AA675320,expressed sequence AW742596	SLAIN motif family, member 1
Slc12a5	NM_020333.2	KCC2,mKIAA1176	solute carrier family 12, member 5
Slc25a20	NM_020520.4	1110007P09RIK,C78826,Cact,MGI:1919042,MGI:2143399,RIKEN cDNA 1110007P09 gene,carnitine/acylcarnitine translocase,expressed sequence C78826,mCAC	solute carrier family 25 (mitochondrial carnitine/acylcarnitine translocase), member 20
Slc2a1	NM_011400.3	Glut-1,Clut1,MGD-MRK-10155,MGD-MRK-10159,glucose transporter 1, erythrocyte	solute carrier family 2 (facilitated glucose transporter), member 1
Slc2a13	NM_001033633.3	A630029G22RIK,AI505012,Gm308,MGI:2685154,RIKEN cDNA A630029G22 gene,expressed sequence AI505012, gene model 308, (NCBI)	solute carrier family 2 (facilitated glucose transporter), member 13
Slc38a2	NM_175121.3	5033402L14RIK,AI316867,MGI:2145976,RIKEN cDNA 5033402L14 gene,expressed sequence AI316867,mKIAA1382	solute carrier family 38, member 2
Slc39a1	NM_013901.2	Zirt1,zinc-iron transporter-like,zip1	solute carrier family 39 (zinc transporter), member 1
Slc41a1	NM_173865.2	A1573938,B230315F01RIK,MGI:2138291,RIKEN cDNA B230315F01 gene,expressed sequence A1573938	solute carrier family 41, member 1
Slc44a1	NM_001159633.1	2210409B22RIK,4833416H08RIK,AW547365,CDW92 antigen,CHTL1,CTL1,Cdw92,MGI:1917424,MGI:1921010,RIKEN cDNA 2210409B22 gene,RIKEN cDNA 4833416H08 gene,expressed sequence AW547365	solute carrier family 44, member 1
Slc44a2	NM_152808.3	1110028E10RIK,CTL2,RIKEN cDNA 1110028E10 gene	solute carrier family 44, member 2
Slc4a2	NM_009207.3	Ae2,B3RP,MGD-MRK-1168,MGD-MRK-38396,anion exchanger 2	solute carrier family 4 (anion exchanger), member 2
Slc5a3	NM_017391.3	AA623876,BF642829,MGI:2683639,MGI:3035295,Smit1,expressed sequence AA623876,expressed sequence BF642829	solute carrier family 5 (inositol transporters), member 3
Slc6a17	NM_172271.2	AW490886,D130012J15RIK,MGI:2139986,NTT4,RIKEN cDNA D130012J15 gene,expressed sequence AW490886	solute carrier family 6 (neurotransmitter transporter), member 17
Slc8a2	NM_148946.2	MGD-MRK-36576,Ncx2	solute carrier family 8 (sodium/calcium exchanger), member 2
Slc9a9	NM_177909.3	5730527A11RIK,AI854429,MGI:1917898,MGI:2143161,Nhe9,RIKEN cDNA 5730527A11 gene,expressed sequence AI854429	solute carrier family 9 (sodium/hydrogen exchanger), member 9
Slco2b1	NM_175316.3	A1060904,AI852653,MGI:2141865,MGI:2142064,OATP-B,Slc21a9,expressed sequence A1060904,expressed sequence AI852653,solute carrier family 21 (organic anion transporter), member 9	solute carrier organic anion transporter family, member 2b1
Smad5	NM_008541.2	1110051M15RIK,AI451355,MGI:1923577,MGI:2145246,Madh5,MusMlp,RIKEN cDNA 1110051M15 gene,Smad 5,expressed sequence AI451355	SMAD family member 5
Smg5	NM_178246.3	BC024683,MGC:30464,MGC:56792,cDNA sequence BC024683,mKIAA1089	Smg-5 homolog, nonsense mediated mRNA decay factor (C. elegans)
Smg9	NM_028047.2	1500002O20RIK,AI429693,MGI:2141954,MGI:2142378,N28092,RIKEN cDNA 1500002O20 gene,expressed sequence AI429693,expressed sequence N28092	smg-9 homolog, nonsense mediated mRNA decay factor (C. elegans)
Smim7	NM_172396.3	9130011J15RIK,RIKEN cDNA 9130011J15 gene	small integral membrane protein 7

Snap25	NM_011428.3	Bdr,GENA 70,MGD-MRK-14461,MGI:1861990,SNAP-25,blind drunk.sp 1300018G05Rik,AI891940,AU020222,BB131856,MGI:2146517,MGI:2146557,MGI:2146684,RIKEN cDNA 1300018G05 gene,expressed sequence AI891940,expressed sequence AU020222,expressed sequence BB131856	synaptosomal-associated protein 25
Snap29	NM_023348.4	1110031806Rik,RIKEN cDNA 1110031806 gene,SNAP-47	synaptosomal-associated protein 29
Snap47	NM_144521.2	91kDa,AP180,F1-20,MGD-MRK-38176,mkIAA0656	synaptosomal-associated protein, 47
Snap91	NM_001277986.1	alpha-Syn,alpha-synuclein,alphaSYN	synaptosomal-associated protein 91
Snca	NM_009221.2	1110050F08Rik,6530403A03Rik,MGI:1916038,RIKEN cDNA 1110050F08 gene,RIKEN cDNA 6530403A03 gene	synuclein, alpha
Snmp48	NM_026382.2	Gm1120,LOC382083 gene model 1120, (NCBI)	small nuclear ribonucleoprotein 48 (U11/U12)
Snx1	NM_019727.2	4933437K13Rik,ENSMUSG00000079738,Gm11170,Gm1737,Gm930,LOC381035,LOC385605,MGI:2685776,MGI:2686583,MGI:3779425,RIKEN cDNA 4933437K13 gene,RUN domain containing 2A,Rundc2a, gene model 1737, (NCBI),gene model 930, (NCBI),predicted gene 11170,predicted gene, ENSMUSG00000079738	sorting nexin 1
Snx2	NM_001025612.2	SDP3	sorting nexin 2
Snx29	NM_028964.4	1810036H14Rik,AI037066,MGI:2141860,RIKEN cDNA 1810036H14 gene,expressed sequence AI037066	sorting nexin 29
Snx3	NM_017472.4	0910001N05Rik,1810032P22Rik,AU019504,D2Erd52e,DNA segment, Chr 2, ERATO Doi 52, expressed,MGI:1098741,MGI:1915657,MGI:2139178,RIKEN cDNA 0910001N05 gene,RIKEN cDNA 1810032P22 gene,expressed sequence AU019504	sorting nexin 3
Snx4	NM_080557.2	8430426K15Rik,ACAT-1,AW550831,Acact,MGD-MRK-10717,MGD-MRK-1274,MGD-MRK-26105,MGI:1921100,MGI:2138610,MGI:87992,MGI:96088,RIKEN cDNA 8430426K15 gene,acetyl coenzyme A cholesterol acyltransferase,adrenocortical lipid depletion,ald,expressed sequence AW550831,hair interior defect,hid	sorting nexin 4
Snx5	NM_001199188.1	2310065E01Rik,9530001P15Rik,CAP,MGI:1922938,MGI:2443814,Ponsin,RIKEN cDNA 2310065E01 gene,RIKEN cDNA 9530001P15 gene,SH3 domain protein 5,Sh3d5,c-Cbl-associated protein,mkIAA1296	sterol O-acyltransferase 1
Soat1	NM_009230.3	A730017D01Rik,AI528773,MGD-MRK-14506,MGI:2141442,MGI:2442476,RIKEN cDNA A730017D01 gene,expressed sequence AI528773	
Sorbs1	NM_009166.3	MGD-MRK-14509	sorbin and SH3 domain containing 1
Sox5	NM_011444.3	2010306G03Rik,AV220920,MGD-MRK-14510,MGI:1917265,MGI:2144464,RIKEN cDNA 2010306G03 gene,expressed sequence AV220920	SRY (sex determining region Y)-box 5
Sox8	NM_011447.3	3110056O03Rik,AW550292,MGI:2143859,RIKEN cDNA 3110056O03 gene,expressed sequence AW550292	SRY (sex determining region Y)-box 8
Sox9	NM_011448.4	AA409688,MGD-MRK-23942,MGI:2141365,expressed sequence AA409688	SRY (sex determining region Y)-box 9
Sppi2b	NM_175195.3	AI173913,LCB2,MGD-MRK-37111,MGI:2144769,Spt2,expressed sequence AI173915	signal peptide peptidase like 2B
Spr	NM_011467.2	ADD-1,MGD-MRK-36180,SREBP-1,SREBP-1a,SREBP-1c,SREBP1,SREBP1c,bHLH17	sepiapterin reductase
Sptc2	NM_011479.3	MGD-MRK-13606,MGD-MRK-14384,Prg1,Sgc,proteoglycan 1, secretory granule	serine palmitoyltransferase, long chain base subunit 2
Sreb1f	NM_011480.4	2210417O06Rik,2900070H08Rik,MGD-MRK-14488,MGD-MRK-14598,MGI:1913777,MGI:1920275,RIKEN cDNA 2210417O06 gene,RIKEN cDNA 2900070H08 gene,Sor	sterol regulatory element binding transcription factor 1
Srgn	NM_011157.2	1500001A10Rik,B230202K19Rik,Bronx waltzer,MGD-MRK-1687,MGD-MRK-9868,MGI:1925852,MGI:88220,RIKEN cDNA 1500001A10 gene,RIKEN cDNA B230202K19 gene,bv,flopsy,fp,mkIAA1853,nSR100	serglycin
Sri	NM_001080974.2	AV348974,MGI:2138535,Myt3,Nzf3,expressed sequence AV348974,mkIAA0535	sericin
Srrm4	NM_026886.3	ST3Gal III,Sti3,Siat6,sialyltransferase 3,sialyltransferase 6 (N-acetylglucosaminide alpha 2,3-sialyltransferase)	serine/arginine repetitive matrix 4
Srta18	NM_001244693.1	AW742324,MGD-MRK-37514,MGI:2146670,ST6Gal I,Siat1,ST6Gal-I,expressed sequence AW742324,sialyltransferase 1,sialyltransferase 1 (beta-galactoside alpha-2,6-sialyltransferase)	suppression of tumorigenicity 18
St3gal3	NM_001161774.2	AI851940,MGI:2139825,ST6GalNac V,Siat7e,expressed sequence AI851940,sialyltransferase 7 ((alpha-N-acetylneuraminy)l 2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase) E	ST3 beta-galactoside alpha-2,3-sialyltransferase 3
St6gal1	NM_001252506.1	AI847333,MGD-MRK-33701,MGI:2147270,ST8SialII,Siat8c,expressed sequence AI847333,sialyltransferase 8 (alpha-2-,8-sialyltransferase) C	beta galactoside alpha 2,6 sialyltransferase 1
St6galnac5	NM_012028.4	1110034C02Rik,AW109958,Aprf,MGD-MRK-23900,MGI:1915983,MGI:2144497,RIKEN cDNA 1110034C02 gene,expressed sequence AW109958	ST6 (alpha-N-acetyl-neuraminy)l-2,3-beta-galactosyl-1,3)-N-acetyl galactosaminide alpha-2,6-sialyltransferase 5
St8sia3	NM_009182.2		ST8 alpha-N-acetyl-neuraminide alpha-2,8-sialyltransferase 3
Stard8	NM_199018.2		START domain containing 8
Stat3	NM_213659.2		signal transducer and activator of transcription 3
Stau2	NM_001111272.1		staufen double-stranded RNA binding protein 2
Stip1	NM_016737.1	Hop,Hsp70/Hsp90 organizing protein,IEF S5P 3521,MGD-MRK-38174,ST11,p60	stress-induced phosphoprotein 1
Stmn2	NM_025285.2	AI159727,MGD-MRK-14310,MGI:2139640,SCG10,Scgn10,expressed sequence AI159727,superoicervical ganglia, neural specific 10	stathmin-like 2
Stom	NM_013515.2	Epb7.2,MGD-MRK-9561,erythrocyte protein band 7.2,protein 7.2b	stomatin
Ston2	NM_175367.6	4933401N24Rik,AI425999,AW544599,MGI:2144810,MGI:2145035,RIKEN cDNA 4933401N24 gene,expressed sequence AI425999,expressed sequence AW544599	stonin 2
Stx1a	NM_016801.3	HPC-1,MGD-MRK-38400	syntaxin 1A (brain)
Stx1b	NM_024414.2	Stx1b2,syntaxin 1B2	syntaxin 1B
Stx4a	NM_009294.3	Stx4,Syn-4,Syn4	syntaxin 4A (placental)
Stx6	NM_021433.3	2310039E05Rik,2410005I16Rik,AA437559,AI415714,AI845861,MGI:1915516,MGI:1916870,MGI:2138226,MGI:2138343,MGI:3035316,RIKEN cDNA 2310039E05 gene,RIKEN cDNA 2410005I16 gene,expressed sequence AA437559,expressed sequence AI415714,expressed sequence AI845861	syntaxin 6
Stxbp1	NM_001113569.1	AI317162,AI326233,MGD-MRK-33867,MGD-MRK-35830,MGI:1306809,MGI:2138896,MGI:2138910,Munc-18a,Munc18-1,N-sec1,Rb-sec1,Sxtbp1,Unc18h,expressed sequence AI317162,expressed sequence AI326233,nsec1,unc18 homolog (C. elegans)	syntaxin binding protein 1
Stxbp5l	NM_172440.3	A830015P08Rik,LLGL4,MGI:2152040,RIKEN cDNA A830015P08 gene,T2dm1,insulin level locus 1,12md1,tomosyn-2,type 2 diabetes mellitus 1	syntaxin binding protein 5-like
Sub1	NM_011294.3	AI842364,MGD-MRK-28105,MGI:2146069,P15,Pc4,rNA polymerase II transcription cofactor,RNA polymerase II transcriptional coactivator,Rpo2tcl,expressed sequence AI842364	SUB1 homolog (S. cerevisiae)
Sult4a1	NM_013873.3	2400007A17Rik,AI853543,BR-STL-1,MGI:1914231,MGI:2146093,RIKEN cDNA 2400007A17 gene,Sult3a,expressed sequence AI853543	sulfotransferase family 4A, member 1
Sumf2	NM_026445.2	2610040F05Rik,RIKEN cDNA 2610040F05 gene	sulfatase modifying factor 2
Sun2	NM_194342.3	AI551766,B230369L08Rik,MGI:2146038,RIKEN cDNA B230369L08 gene,Unc84b,expressed sequence AI551766,unc-84 homolog B (C. elegans)	Sad1 and UNC84 domain containing 2
Sv2a	NM_022030.3	AI746429,MGI:2139787,expressed sequence AI746429	synaptic vesicle glycoprotein 2 a
Svop	NM_026805.1	1110030H18Rik,AI415691,MGI:2140865,RIKEN cDNA 1110030H18 gene,expressed sequence AI415691,msvop	SV2 related protein
Syn2	NM_013681.1	2900074L19Rik,AI836018,AI841723,MGD-MRK-23857,MGI:1914524,MGI:2141475,MGI:2141484,RIKEN cDNA 2900074L19 gene,Synapsin IIa,Synapsin IIb,expressed sequence AI836018,expressed sequence AI841723	synapsin II
Synr1	NM_009303.2	MGI:2146324,R75468,Synr1b,expressed sequence R75468,p29	synaptogyrin 1
Synr3	NM_011522.3		synaptogyrin 3
Synj1	NM_001045515.1	A930006D20Rik,AA675315,MGI:1925189,MGI:2146363,RIKEN cDNA A930006D20 gene,expressed sequence AA675315,mkIAA0910	synaptojanin 1
Syp	NM_009305.2	A230093K24Rik,AI848995,MGD-MRK-14690,MGI:2147923,MGI:2441790,RIKEN cDNA A230093K24 gene,Syn,Syp I,expressed sequence AI848995,p38	synaptophysin
Syt1	NM_009306.2	AW124717,G630098F17Rik,MGD-MRK-16452,MGI:2143817,RIKEN cDNA G630098F17 gene,expressed sequence AW124717	synaptotagmin 1
Syt13	NM_030725.4	5730409J20Rik,AI549909,MGI:1917750,MGI:2139000,RIKEN cDNA 5730409J20 gene,expressed sequence AI549909	synaptotagmin XIII
Syt16	NM_172804.2	Strept14,Syt14L,synaptotagmin 14-like,syt14L	synaptotagmin XVI
Tagln2	NM_178598.2	2700094C18Rik,MGI:1925645,RIKEN cDNA 2700094C18 gene,Sm22B	transgelin 2
Tatdn3	NM_001163421.1	1500010M24Rik,RIKEN cDNA 1500010M24 gene	TatD Nbase domain containing 3
Tbcl1d30	NM_029057.1	4930505D03Rik,RIKEN cDNA 4930505D03 gene	TBC1 domain family, member 30
Tbcl1d9	NM_001111304.1	4933431N12Rik,AI847101,AW490653,C76116,MGI:2142627,MGI:2142788,MGI:3034735,RIKEN cDNA 4933431N12 gene,expressed sequence AI847101,expressed sequence AW490653,expressed sequence C76116	TBC1 domain family, member 9
Tbl3	NM_145396.4	9430070M15Rik,MGI:1924559,RIKEN cDNA 9430070M15 gene	transducin (beta)-like 3

Tcf12	NM_011544.3	ALF1,HEB,HEBAIT,HTF-4,HTF4,ME1,MGD-MRK-18703,REB,bHLHb20	transcription factor 12
Tcigr1	NM_001136091.1	ATP6a3,ATPase, H+ transporting, lysosomal I,ATp6i,MGD-MRK-12970,MGI:97398,OC-116,TIRC7,V-ATPase a3,oc,osteosclerotic	T cell, immune regulator 1, ATPase, H+ transporting, lysosomal VO protein A3
Tenm2	NM_011856.3	2610040L17RIK,9330187F13RIK,D3Bwg1534e,DNA segment, Chr 3, Brigham & Women's Genetics	
Tfeb	NM_001161723.1	1534 expressed,MGD-MRK-35806,MGI:107340,MGI:1919714,MGI:1924765,Od2,RIKEN cDNA	
Tgfa	NM_003199.2	2610040L17 gene,RIKEN cDNA 9330187F13 gene,Ten-m2,mKIAA1127,odd Oz/ten-m homolog 2 (Drosophila)	teurenin transmembrane protein 2
Tgfb1	NM_009370.2	MGD-MRK-24150,Tcfeb,bHLHe35	transcription factor EB
Tgfb2	NM_009371.2	MGD-MRK-15062,MGD-MRK-15421,MGD-MRK-15423,wa-1,wa1,waved 1	transforming growth factor alpha
Tgm2	NM_009373.3	ALK5,AU017191,Alk-5,MGD-MRK-15070,MGI:2140434,TbetaR-I,TbetaRI,expressed sequence AU017191	transforming growth factor, beta receptor I
Thap1	NM_199042.2	1110020H15RIK,AU042018,MGD-MRK-15071,MGI:1923554,MGI:2143233,RIKEN cDNA	transforming growth factor, beta receptor II
Thrb	NM_009380.3	1110020H15 gene,TBR-II,TbetaR-II,TbetaRII,expressed sequence AU042018	transforming growth factor, beta receptor II
Thyb	NM_011597.3	G1ajh,MGD-MRK-15073,TG C,TG2,TGase2,protein-glutamine gamma-glutamyltransferase,ITG,ITGas,tissue transglutaminase	transglutaminase 2, C polypeptide
Tin1	NM_011602.5	4833431A01RIK,AW498010,MGI:2142789,RIKEN cDNA 4833431A01 gene,expressed sequence AW498010	THAP domain containing, apoptosis associated protein 1
Tm4sf1	NM_008536.3	MGD-MRK-15094,MGD-MRK-15095,MGD-MRK-15096,Nr1a2,T3R[b],T3Rbeta,TR beta,Thrb1,Thrb2,c-erbAbeta,thyroid hormone receptor beta 1,thyroid hormone receptor beta 2	thyroid hormone receptor beta
Tmbim1	NM_027154.5	Zo-2	tight junction protein 2
Tmbim6	NM_001171035.1	12A8 target antigen,L6,L6 antigen,M3s1,MGD-MRK-27041,membrane component, surface marker 1	talin 1
Tmcc1	XM_132843.8	2310061B02RIK,AA960455,AU024746,C78899,MGI:2138482,MGI:2138674,MGI:2146371,RIKEN cDNA 2310061B02 gene,expressed sequence AA960455,expressed sequence AU024746,expressed sequence C78899	transmembrane 4 superfamily member 1
Tmcc3	NM_172051.2	5031406P05RIK,Bax inhibitor 1,MGD-MRK-16467,MGI:1915559,RIKEN cDNA 5031406P05 gene,Tegt, testis enhanced gene transcript	transmembrane BAX inhibitor motif containing 1
Tmed10	NM_026775.4	3632431M01RIK,RIKEN cDNA 3632431M01 gene	transmembrane BAX inhibitor motif containing 6
Tmem125	NM_172383.3	A230066D03RIK,AW488095,C630016B22RIK,C88213,Gm1556,LOC380656,MGI:2143840,MGI:2143 949,MGI:2686402,RIKEN cDNA A230066D03 gene,RIKEN cDNA C630016B22 gene,Tmcc1,expressed sequence AW488095,expressed sequence C88213, gene model 1556, (NCBI),transmembrane and coiled coil domains 1	transmembrane and coiled coil domains 3
Tmem128	NM_025480.3	1110041C03RIK,RIKEN cDNA 1110041C03 gene,p23,p24delta1	transmembrane p24 trafficking protein 10
Tmem144	NM_027495.4	6330530A05RIK,AV223516,MGI:2140533,RIKEN cDNA 6330530A05 gene,expressed sequence AV223516	transmembrane protein 125
Tmem165	NM_011626.2	2810021O14RIK,RIKEN cDNA 2810021O14 gene	transmembrane protein 128
Tmem168	NM_028990.4	1110057I03RIK,5730537D05RIK,MGI:1916079,RIKEN cDNA 1110057I03 gene,RIKEN cDNA 5730537D05 gene	transmembrane protein 144
Tmem176a	NM_001098271.1	AV026557,MGI:2141106,TPA regulated locus,Tpardl,Tparf,expressed sequence AV026557,pFT27 5730526F17RIK,8430437G11RIK,AI462344,AI504145,EST AI462344,MGI:1889843,MGI:1917921,MGI:2141436,RIKEN cDNA 5730526F17 gene,RIKEN cDNA 8430437G11 gene,expressed sequence AI504145	transmembrane protein 165
Tmem176b	NM_001164207.1	0610011I04RIK,AU040201,AU041743,MGI:2141581,MGI:2141587,RIKEN cDNA 0610011I04 gene,expressed sequence AU040201,expressed sequence AU041743	transmembrane protein 168
Tmem209	NM_178625.3	1810009M01RIK,Clast1,Lr8,RIKEN cDNA 1810009M01 gene	transmembrane protein 176A
Tmem231	NM_001033321.1	2700094F01RIK,AI428435,EST AI428435,MGI:1889820,RIKEN cDNA 2700094F01 gene	transmembrane protein 176B
Tmem246	NM_025944.3	4932417I6RIK,Gm178,RIKEN cDNA 4932417I6 gene, gene model 178, (NCBI)	transmembrane protein 209
Tmem47	NM_138751.2	2810432L12RIK,9330170P15RIK,AI835809,MGI:1924513,MGI:2140362,RIKEN cDNA 2810432L12 gene,RIKEN cDNA 9330170P15 gene,expressed sequence AI835809	transmembrane protein 231
Tmem59I	NM_182991.2	3010015F07RIK,AI115536,BCMP1,MGI:1924083,MGI:3034834,RIKEN cDNA 3010015F07 gene,Tm4sf10,expressed sequence AI115536,transmembrane 4 superfamily member 10	transmembrane protein 246
Tmem63a	NM_144794.2	5330410G16RIK,RIKEN cDNA 5330410G16 gene	transmembrane protein 47
Tmtc2	NM_177368.4	BC014795,MGC:11687,MGC:25803,cDNA sequence BC014795	transmembrane protein 59-like
Tnfaip8	NM_134131.2	8430438D04RIK,D33003A10RIK,MGI:2444719,RIKEN cDNA 8430438D04 gene,RIKEN cDNA D33003A10 gene	transmembrane protein 63a
Tnfrsf1a	NM_011609.2	AA987150,E130304C20RIK,ENSMUSG00000073567,Gg2-1,Gm10539,MGI:3642692,Nded,RIKEN cDNA E130304C20 gene,Sec-2,Tipe,expressed sequence AA987150,predicted gene 10539,predicted gene, ENSMUSG00000073567	transmembrane and tetrapeptide repeat containing 2
Tollip	NM_023764.3	CD120a,MGD-MRK-15155,MGD-MRK-15156,MGI:98781,TNF receptor alpha chain,TNF-R-I,TNF-R1,TNF-R55,TNF-alpha-R1,TNF-alphaR1,TNFAR,TNFR60,TNFR1,TNFRp55,TNFalpha-R1,Tnfr-2,Tnfr1,p55-R,tumor necrosis factor receptor 1,tumor necrosis factor receptor 2	tumor necrosis factor, alpha-induced protein 8
Tor1a	NM_144884.2	4930403G24RIK,4931428G15RIK,MGI:1921868,MGI:1922969,RIKEN cDNA 4930403G24 gene,RIKEN cDNA 4931428G15 gene	tumor necrosis factor receptor superfamily, member 1a
Trp1	NM_009415.2	DQ2,Dyt1,dystonia 1,torsin family 1, member A,torsinA	toll interacting protein
Trpp3	NM_026481.3	AI255506,MGD-MRK-15179,MGD-MRK-15180,MGI:2141384,Tpi-1,expressed sequence AI255506	torsin family 1, member A (torsin A)
Trpm	NM_175286.4	2700055K07RIK,RIKEN cDNA 2700055K07 gene	triosephosphate isomerase 1
Trappc2l	NM_021502.2	C430004E15RIK,C87750,RIKEN cDNA C430004E15 gene,expressed sequence C87750	tubulin polymerization-promoting protein family member 3
Trappc4	NM_021789.2	1810017G16RIK,MGI:1927554,RIKEN cDNA 1810017G16 gene,Tca17 1500017G03RIK,AI303617,HSPC172,MGI:1916212,MGI:2143008,PTD009,RIKEN cDNA 1500017G03 gene,Sbd,Sbdn,TRS23,expressed sequence AI303617,symbindin 1810073E21RIK,4930519D19RIK,AI480686,MGI:1922355,MGI:2141982,MGI:3577867,RIKEN cDNA 1810073E21 gene,RIKEN cDNA 4930519D19 gene,TRS33,expressed sequence AI480686,mhpy,mosaic hypopigmentation MGI:1922924,MGI:1932925,Trem2a,Trem2b,Trem2c,triggering receptor expressed on myeloid cells 2a,triggering receptor expressed on myeloid cells 2b,triggering receptor expressed on myeloid cells 2c	trafficking protein particle complex 2-like
Trappc6a	NM_025960.3	2310035M22RIK,2700022F13RIK,MGI:1919808,Mrf1,RIKEN cDNA 2310035M22 gene,RIKEN cDNA 2700022F13 gene,TSBF1	trafficking protein particle complex 4
Trem2	NM_031254.2	2610042J10RIK,RIKEN cDNA 2610042J10 gene,RNA (guanine-9-) methyltransferase domain containing 3,Rg9mtd3	trafficking protein particle complex 6A
Trim59	NM_025863.3	538P2,AI746547,ASPP2,MGI:2138737,X98550,expressed sequence AI746547,expressed sequence X98550	triggering receptor expressed on myeloid cells 2
Trmt10b	NM_027266.4	MGD-MRK-39527,Mtrp1,Trp1,Trp1,transient receptor protein 1	tripartite motif-containing 59
Trp53bp2	NM_173378.2	AI481500,MGI:2140918,expressed sequence AI481500,transactivation/transformation-domain associated protein	tRNA methyltransferase 10B
Trpc1	NM_011643.2	5730407I04RIK,D18Bwg1409e,DNA segment, Chr 18, Brigham & Women's Genetics 1409 expressed,MGD-MRK-33960,MGI:106268,MGI:1917748,Mtsh1,NY-CO-33,RIKEN cDNA 5730407I04 gene,Sdscag33,Tsh1,serologically defined colon cancer antigen 33,teashirt1 MGI:2142892,R74833,Trax,expressed sequence R74833	transformation related protein 53 binding protein 2
Trrap	NM_001081362.1	1110036D12RIK,2700063A19RIK,AW048364,MGI:1915926,MGI:2143799,RIKEN cDNA 1110036D12 gene,RIKEN cDNA 2700063A19 gene,Tm4sf15,expressed sequence AW048364,transmembrane 4 superfamily member 15	transient receptor potential cation channel, subfamily C, member 1
Tshz1	NM_001081300.1	6720473L21RIK,AI316786,MGI:1924400,MGI:2147866,RIKEN cDNA 6720473L21 gene,Tm4sf6,expressed sequence AI316786,transmembrane 4 superfamily member 6	transformation/transcription domain-associated protein
Tsnax	NM_016909.2	Bzrp,MGD-MRK-1694,PBR,Tspo1,benzodiazepine receptor, peripheral 1110001A03RIK,MGI:1915785,RIKEN cDNA 1110001A03 gene	tetraspanin 6
Tspan15	NM_197996.2	DAP12,KARAP,killer cell activating receptor associated protein	translocator protein
Tspan6	NM_019656.3	MGD-MRK-15323	twenty family member 2
Tspo	NM_009775.4	1810064L21RIK,3110001A05RIK,3110027P15RIK,AZ30065J02RIK,AW047562,MGI:1920355,MGI:192 0381,MGI:2145787,MGI:2442297,RIKEN cDNA 1810064L21 gene,RIKEN cDNA 3110001A05 gene,RIKEN cDNA 3110027P15 gene,RIKEN cDNA AZ30065J02 gene,UDP-glucose ceramide glucosyltransferase-like 2,Ugcl2,expressed sequence AW047562	TYRO protein tyrosine kinase binding protein
Tthy2	NM_053273.2	AI850488,AW455908,Cgt,MGD-MRK-36113,MGD-MRK-39521,MGI:2139820,MGI:2139983,UDP glucuronosyltransferase 8,UDP-galactose ceramide galactosyltransferase,Ugt8,expressed sequence AI850488,expressed sequence AW455908,mCerGT	U2 small nuclear ribonucleoprotein auxiliary factor (U2AF) 2
Tyrobp	NM_011662.2		
U2af2	NM_133671.3		
Uggt2	NM_001081252.2		
Ugt8a	NM_011674.4		

Unc119	NM_011676.2	HRG4,MGI:1276531,MRG4,Rg4,Unc119h,retinal gene 4,unc119 homolog (C. elegans)	unc-119 lipid binding chaperone
Unc5d	NM_153135.3	D930029E11Rik,MGI:2444819,RIKEN cDNA D930029E11 gene,Unc5h4,unc5 homolog (C. elegans)	unc-5 netrin receptor D
Uqcrcq	NM_025352.2	1100001F06Rik,1500040F11Rik,5830407L17Rik,AA959903,MGD-MRK-36384,MGI:1913349,MGI:1915190,MGI:1923247,MGI:2138135,OP-C,Qpc,RIKEN cDNA	ubiquinol-cytochrome c reductase, complex III subunit VII
Urod	NM_009478.3	A1323803,MGD-MRK-15372,MGI:2140235,Uro-d,expressed sequence A1323803	uroporphyrinogen decarboxylase
Uros	NM_009479.2	A1415298,MGD-MRK-15374,MGI:2141932,URO-synthase,Uros3,expressed sequence A1415298,hydroxymethylbilan hydrolyase (cyclizing),uroporphyrinogen-III synthase	uroporphyrinogen III synthase
Usp31	NM_001033173.1	6330567E21Rik,RIKEN cDNA 6330567E21 gene,mKIAA1203	ubiquitin specific peptidase 31
Usp54	NM_030180.2	4930429G18Rik,AI115571,C030002J06Rik,MGI:2145598,MGI:2442602,RIKEN cDNA 4930429G18 gene,RIKEN cDNA C030002J06 gene,expressed sequence AI115571	ubiquitin specific peptidase 54
Utrn	NM_011682.4	AA589569,DRP,Dmdl,G-utrophin,MGD-MRK-26068,MGD-MRK-8870,MGI:2143500,dystrophin-like,expressed sequence AA589569	utrophin
Vamp1	NM_001080557.1	MGD-MRK-14675,MGD-MRK-14677,MGI:2449156,MGI:98458,Syb-1,Syb1,VAMP-1,lethal wasting,lew synaptobrevin 1	vesicle-associated membrane protein 1
Vamp3	NM_009498.4	D130027G05Rik,MGI:2444833,RIKEN cDNA D130027G05 gene,VAMP-3,ceb,cellubrevin	vesicle-associated membrane protein 3
Vamp8	NM_016794.3	AU041171,MGI:2141586,endobrevin,expressed sequence AU041171	vesicle-associated membrane protein 8
Vapb	NM_019806.5	A1225786,AI840687,AI848259,D2Abb2e,DNA segment, Chr 2, Abbott 2 expressed,MGD-MRK-34262,MGI:106568,MGI:2138863,MGI:2139066,MGI:2139072,MGI:2139546,R75548,VAMP-associated protein 3b,VAP3b,expressed sequence A1225786,expressed sequence A1840687,expressed sequence A1848259,expressed sequence R75548	vesicle-associated membrane protein, associated protein B and C
Vav2	NM_009500.1	2810040F13Rik,AI847175,MGD-MRK-19622,MGI:1919946,MGI:2139071,RIKEN cDNA 2810040F13 gene,expressed sequence A1847175	vav 2 oncogene
Vezf1	NM_016686.4	A1848691,AW046909,MGI:2144299,MGI:2144482,db1,expressed sequence A1848691,expressed sequence AW046909	vascular endothelial zinc finger 1
Vgf	NM_001039385.1	Gm1052,LOC381677,MGI:2685898, gene model 1052, (NCBI)	VEGF nerve growth factor inducible
Vps33b	NM_178070.4	MGC:36556	vacuolar protein sorting 33B
Vsn1	NM_012038.4	VILIP	visinin-like 1
Wac	NM_001146298.2	1110067P07Rik,A230035H12Rik,AI256735,AI256776,MGI:1923581,MGI:2147203,MGI:2147204,RIKEN cDNA 1110067P07 gene,RIKEN cDNA A230035H12 gene,Wwp4,expressed sequence AI256735,expressed sequence AI256776	WW domain containing adaptor with coiled-coil
Wls	NM_026582.3	5031439A09Rik,AI173978,AI987742,G protein-coupled receptor 177,Gpr177,MGI:2139641,MGI:2139844,RIKEN cDNA 5031439A09 gene,expressed sequence AI173978,expressed sequence AI987742	wntless WNT ligand secretion mediator
Wscd2	NM_177292.3	4933413A10Rik,C530024P05Rik,Gm450,MGI:2685296,RIKEN cDNA 4933413A10 gene,RIKEN cDNA C530024P05 gene, gene model 450, (NCBI)	WSC domain containing 2
Wwc1	NM_170779.1	AA408228,AU017197,BC037006,Kibra,MGC:47054,MGI:2143978,MGI:2144380,cDNA sequence BC037006,expressed sequence AA408228,expressed sequence AU017197	WW, C2 and coiled-coil domain containing 1
Wwtr1	NM_001168281.1	2310058J06Rik,2610021I22Rik,C78399,MGI:1917177,MGI:2140055,RIKEN cDNA 2310058J06 gene,RIKEN cDNA 2610021I22 gene,TAZ,expressed sequence C78399,transcriptional coactivator with PDZ binding motif	WW domain containing transcription regulator 1
Yap1	NM_009534.3	A1325207,MGD-MRK-24140,MGI:2143022,Yap,Yki,expressed sequence A1325207,yorkie C79409,DNA binding protein B,EF1A,MGD-MRK-15843,MGI:2140677,MSY1,Nsep1,YB-1,dbpB,expressed sequence C79409,nuclease sensitive element binding protein 1	yes-associated protein 1
Ybx1	NM_011732.2	Csda,Dpba,MGI:1096351,MSY3,MSY4,Yb2,cold shock domain protein A,dbpA,oxfR	Y box protein 1
Ybx3	NM_139117.2	A1323763,MGD-MRK-15844,MGI:2140834,Yamaguchi sarcoma viral (y-vys) oncogene homolog,Yes,expressed sequence A1323763	Y box protein 3
Yes1	NM_001205132.1	14-3-3 gamma,D7Bwq1348e,DNA segment, Chr 7, Brigham & Women's Genetics 1348 expressed,MGD-MRK-34146,MGD-MRK-37146,MGI:106452	YES proto-oncogene 1, Src family tyrosine kinase
Ywhag	NM_018871.2	AW260253,E130014G12Rik,MGI:2148006,MGI:2444590,RIKEN cDNA E130014G12 gene,ZNF-Kaiso,expressed sequence AW260253,kaiso	tyrosine 3-monooxygenase/tryptophan 5-monooxygenase activation protein, gamma polypeptide
Zbtb33	NM_020256.2	2010001H09Rik,2310028N13Rik,AI851226,Arch,MGI:1916849,MGI:2140990,RIKEN cDNA 2010001H09 gene,RIKEN cDNA 2310028N13 gene,archaease,expressed sequence AI851226	zinc finger and BTB domain containing 33
Zbtb80s	NM_025970.3	2010001H09 gene,RIKEN cDNA 2310028N13 gene,archaease,expressed sequence AI851226	zinc finger and BTB domain containing 8 opposite strand
Zdhhc9	NM_172465.4	9530098M12Rik,RIKEN cDNA 9530098M12 gene	zinc finger, DHHC domain containing 9
Zeb2	NM_015753.4	9130203F04Rik,D130016B08Rik,MGI:2442196,MGI:2442919,RIKEN cDNA 9130203F04 gene,RIKEN cDNA D130016B08 gene,SIP1,Zfhx1b,Zfx1b,mKIAA0569,zinc finger homeobox 1b	zinc finger E-box binding homeobox 2
Zfp36	NM_011756.4	MGD-MRK-15295,MGD-MRK-15877,MGD-MRK-15932,Nup475,Tis11,Tristetraprolin,Ttp,Zfp-36,tris-tetraprolin	zinc finger protein 36
Zfp36i1	NM_007564.5	AW742437,AW743212,Brf1,D530020L18Rik,MGD-MRK-36526,MGI:1925964,MGI:2140615,MGI:2145053,RIKEN cDNA D530020L18 gene,TIS11b,cMGI,expressed sequence AW742437,expressed sequence AW743212	zinc finger protein 36, C3H type-like 1
Zfp536	NM_172385.2	9630010P11Rik,RIKEN cDNA 9630010P11 gene,mKIAA0390	zinc finger protein 536
Zfp592	NM_178707.4	A730014M16Rik,RIKEN cDNA A730014M16 gene,mKIAA0211	zinc finger protein 592
Zfp768	NM_146202.1	BC026432,MGC:31345,cDNA sequence BC026432	zinc finger protein 768
Zkscan6	NM_026107.2	1700128E15Rik,D11Erd714e,DNA segment, Chr 11, ERATO Doi 714, expressed,KOx11,MGI:1914613,RIKEN cDNA 1700128E15 gene,Zfp535,zinc finger protein 535	zinc finger with KRAB and SCAN domains 6
Zmia2	NM_001005867.1	2410117E06Rik,D11Bwg0280e,DNA segment, Chr 11, Brigham & Women's Genetics 0280e expressed,MGD-MRK-34067,MGI:1920928,MGI:2144700,R74931,RIKEN cDNA 2410117E06 gene,Zimp7,expressed sequence R74931	zinc finger, MIZ-type containing 2
Znhit3	NM_001005223.2	Trip3,thyroid hormone receptor interactor 3	zinc finger, HIT type 3
Internal Reference Genes			
Aars	NM_146217.4	A1316495,C76919,MGC:37368,MGI:1890634,MGI:2142499,MGI:2142843,expressed sequence A1316495,expressed sequence C76919,sti,stickly	alanyl-tRNA synthetase
Asb7	NM_080443.2	A1449039,Asb-7,D030055C23Rik,MGI:2141960,MGI:2441936,RIKEN cDNA D030055C23 gene,expressed sequence A1449039	ankyrin repeat and SOCS box-containing 7
Ccdc127	NM_024201.3	0610011N22Rik,5430420E17Rik,AI256405,AW050060,MGI:1918606,MGI:2145196,MGI:2145408,RIKEN cDNA 0610011N22 gene,RIKEN cDNA 5430420E17 gene,expressed sequence AI256405,expressed sequence AW050060	coiled-coil domain containing 127
Cnot12	NM_153585.5	2600001P13Rik,RIKEN cDNA 2600001P13 gene	CCR4-NOT transcription complex, subunit 10
Csnk2a2	NM_009974.3	1110035J23Rik,C77789,CK2,MGD-MRK-2205,MGI:1915939,MGI:2142847,RIKEN cDNA 1110035J23 gene,expressed sequence C77789	casein kinase 2, alpha prime polypeptide
Fam104a	NM_138598.5	D11Wsu99e,DNA segment, Chr 11, Wayne State University 99, expressed,MGD-MRK-34043	family with sequence similarity 104, member A
Lars	NM_134137.2	2310045K21Rik,3110009L02Rik,AW536573,MGI:1920310,MGI:2147367,RIKEN cDNA 2310045K21 gene,RIKEN cDNA 3110009L02 gene,expressed sequence AW536573,mKIAA1352	leucyl-tRNA synthetase
Mto1	NM_026658.2	2310039H01Rik,5730419A02Rik,MGI:1917779,RIKEN cDNA 2310039H01 gene,RIKEN cDNA 5730419A02 gene	mitochondrial tRNA translation optimization 1
Supt7l	NM_028150.1	2610524B01Rik,6030455L14Rik,MGI:1924975,RIKEN cDNA 2610524B01 gene,RIKEN cDNA 6030455L14 gene	suppressor of Ty 7-like
Tada2b	NM_001170454.1	AA474455,Gm145,LOC231151,MGI:2684991,expressed sequence AA474455, gene model 145, (NCBI)	transcriptional adaptor 2B