

nCounter® Mouse Fibrosis V2 Panel - Gene Details				
Official Symbol	Accession	Alias / Previous Symbol	Official Full Name	Other targets or Isoform Information
Abca1	NM_013454.3	ABCL1,ATP-binding cassette, sub-family A (ABCL1), member 1,Abc1,Abca1,MGD-MRK-16392	ATP-binding cassette, sub-family A (ABCL1), member 1	
Abcb11	NM_021022.2	ABCL15,ATP-binding cassette, sub-family B (MDR/TAP), member 11,Abcb11,Abcbp,11h11,MGI:134119,PF014,PC014,like salt export pump,sister of P-glycoprotein	ATP-binding cassette, sub-family B (MDR/TAP), member 11	
Acaa2	NM_177470.2	0610011104Rk,AI255831,AI265397,Acac2,D18Ertd240c,DNA segment, Chr 18, ERATO Doi 240, expressed,MGI:1915593,MGI:2147202,MGI:2147205,RIKEN cDNA 0610011104 gene,acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacetyl-Coenzyme A thiolase),expressed sequence AI255831,expressed sequence AI265397	acetyl-Coenzyme A acyltransferase 2 (mitochondrial 3-oxoacetyl-Coenzyme A thiolase)	
Acaca	NM_133360.2	AS300205Rk,Acac,Acaca,Acc1,Gm738,LOC327983,MGD-MRK-37495,MGI:2443466,MGI:2685584,RIKEN cDNA AS30020505 gene,acetyl-CoA carboxylase,acetyl-Coenzyme A carboxylase,acetyl-Coenzyme A carboxylase alpha, gene model 738, (NCBI)	acetyl-Coenzyme A carboxylase alpha	
Acacb	NM_133904.2	A1597064,AW743042,Acacb,Acc2,Accb,MGI:2141247,acetyl-Coenzyme A carboxylase beta,expressed sequence A1597064,expressed sequence AW743042	acetyl-Coenzyme A carboxylase beta	
Acx2	NM_00116667.1	Acx2,acyl-Coenzyme A oxidase 2, branched chain	acyl-Coenzyme A oxidase 2, branched chain	
Acsl4	NM_207625.2	9430020A05Rk,ACSL4,AU018110b,Acsl4,Fa4c1,LC34,MGI:2147955,RIKEN cDNA 9430020A05 gene,acyl-CoA synthetase long-chain family member 4,expressed sequence AU018110b,fatty acid-Coenzyme A ligase, long chain 4	acyl-CoA synthetase long-chain family member 4	
Acsm3	NM_016870.3	Acsm3,MGD-MRK-16316,SA rat hypertension-associated homolog,Sa,Sah,acyl-CoA synthetase medium-chain family member 3	acyl-CoA synthetase medium-chain family member 3	
Acta2	NM_007392.2	0610041G09Rk,Acta2,Actvs,MGD-MRK-1095,MGI:1915627,RIKEN cDNA 0610041G09 gene,3MAalpha,S.Malalpha,a-5MA,actin, alpha 2, smooth muscle, aorta,actin, alpha, vascular smooth muscle, alpha3MA	actin, alpha 2, smooth muscle, aorta	
Actr1a	NM_016860.1	ARP1 actin-related protein 1A, centractin alpha,Actr1a	ARP1 actin-related protein 1A, centractin alpha	
Acrv1	NM_009612.2	A1115505,AI427544,Acv1,Acv1r1,Ark-1,Alk1,MGD-MRK-35653,MGI:1071932,MGI:2145947,MGI:2145999,activin A receptor type II-like kinase 1,activin A receptor, type II-like 1,activin receptor-like kinase 1, expressed sequence A1115505,expressed sequence AI427544	activin A receptor, type II-like 1	
Ad2	NM_007398.3	Ad2,MGD-MRK-1104,adenosine deaminase	adenosine deaminase	
Adam17	NM_001277266.1	Adam17,CD156b,Tace,a disintegrin and metalloproteinase domain 17,tumor necrosis factor-alpha converting enzyme	a disintegrin and metalloproteinase domain 17	
Adam9	NM_007404.2	AU020942,Adam9,MDC9,MGD-MRK-33045,MGI:2142696,Mtrng,a disintegrin and metalloproteinase domain 9 (meltrin gamma),expressed sequence AU020942,mGA00021,meltrin, gamma	a disintegrin and metalloproteinase domain 9 (meltrin gamma)	
Adcy7	NM_001037723.3	AA407758,Adcy7,MGD-MRK-23725,MGI:2142399,adenylate cyclase 7,expressed sequence AA407758	adenylate cyclase 7	
Adh1	NM_007409.2	ADH-AA,AI194826,Adh-1,Adh-1e,Adh-1f,Adh-1g,Adh-1h,Adh-1i,Adh-1j,Adh-1k,Adh-1l,Adh-1m,Adh-1n,Adh-1o,Adh-1p,Adh-1q,Adh-1r,Adh-1s,Adh-1t,Adh-1u,Adh-1v,Adh-1w,Adh-1x,Adh-1y,Adh-1z,Adh-1aa,Adh-1ab,Adh-1ac,Adh-1ad,Adh-1ae,Adh-1af,Adh-1ag,Adh-1ah,Adh-1ai,Adh-1aj,Adh-1ak,Adh-1al,Adh-1am,Adh-1an,Adh-1ao,Adh-1ap,Adh-1aq,Adh-1ar,Adh-1as,Adh-1at,Adh-1au,Adh-1av,Adh-1aw,Adh-1ax,Adh-1ay,Adh-1az,Adh-1ba,Adh-1bb,Adh-1bc,Adh-1bd,Adh-1be,Adh-1bf,Adh-1bg,Adh-1bh,Adh-1bi,Adh-1bj,Adh-1bk,Adh-1bl,Adh-1bm,Adh-1bn,Adh-1bo,Adh-1bp,Adh-1bq,Adh-1br,Adh-1bs,Adh-1bt,Adh-1bu,Adh-1bv,Adh-1bw,Adh-1bx,Adh-1by,Adh-1bz,Adh-1ca,Adh-1cb,Adh-1cc,Adh-1cd,Adh-1ce,Adh-1cf,Adh-1cg,Adh-1ch,Adh-1ci,Adh-1cj,Adh-1ck,Adh-1cl,Adh-1cm,Adh-1cn,Adh-1co,Adh-1cp,Adh-1cq,Adh-1cr,Adh-1cs,Adh-1ct,Adh-1cu,Adh-1cv,Adh-1cw,Adh-1cx,Adh-1cy,Adh-1cz,Adh-1da,Adh-1db,Adh-1dc,Adh-1dd,Adh-1de,Adh-1df,Adh-1dg,Adh-1dh,Adh-1di,Adh-1dj,Adh-1dk,Adh-1dl,Adh-1dm,Adh-1dn,Adh-1do,Adh-1dp,Adh-1dq,Adh-1dr,Adh-1ds,Adh-1dt,Adh-1du,Adh-1dv,Adh-1dw,Adh-1dx,Adh-1dy,Adh-1dz,Adh-1ea,Adh-1eb,Adh-1ec,Adh-1ed,Adh-1ee,Adh-1ef,Adh-1eg,Adh-1eh,Adh-1ei,Adh-1ej,Adh-1ek,Adh-1el,Adh-1em,Adh-1en,Adh-1eo,Adh-1ep,Adh-1eq,Adh-1er,Adh-1es,Adh-1et,Adh-1eu,Adh-1ev,Adh-1ew,Adh-1ex,Adh-1ey,Adh-1ez,Adh-1fa,Adh-1fb,Adh-1fc,Adh-1fd,Adh-1fe,Adh-1ff,Adh-1fg,Adh-1fh,Adh-1fi,Adh-1fj,Adh-1fk,Adh-1fl,Adh-1fm,Adh-1fn,Adh-1fo,Adh-1fp,Adh-1fq,Adh-1fr,Adh-1fs,Adh-1ft,Adh-1fu,Adh-1fv,Adh-1fw,Adh-1fx,Adh-1fy,Adh-1fz,Adh-1ga,Adh-1gb,Adh-1gc,Adh-1gd,Adh-1ge,Adh-1gf,Adh-1gg,Adh-1gh,Adh-1gi,Adh-1gj,Adh-1gk,Adh-1gl,Adh-1gm,Adh-1gn,Adh-1go,Adh-1gp,Adh-1gq,Adh-1gr,Adh-1gs,Adh-1gt,Adh-1gu,Adh-1gv,Adh-1gw,Adh-1gx,Adh-1gy,Adh-1gz,Adh-1ha,Adh-1hb,Adh-1hc,Adh-1hd,Adh-1he,Adh-1hf,Adh-1hg,Adh-1hh,Adh-1hi,Adh-1hj,Adh-1hk,Adh-1hl,Adh-1hm,Adh-1hn,Adh-1ho,Adh-1hp,Adh-1hq,Adh-1hr,Adh-1hs,Adh-1ht,Adh-1hu,Adh-1hv,Adh-1hw,Adh-1hx,Adh-1hy,Adh-1hz,Adh-1ia,Adh-1ib,Adh-1ic,Adh-1id,Adh-1ie,Adh-1if,Adh-1ig,Adh-1ih,Adh-1ii,Adh-1ij,Adh-1ik,Adh-1il,Adh-1im,Adh-1in,Adh-1io,Adh-1ip,Adh-1iq,Adh-1ir,Adh-1is,Adh-1it,Adh-1iu,Adh-1iv,Adh-1iw,Adh-1ix,Adh-1iy,Adh-1iz,Adh-1ja,Adh-1jb,Adh-1jc,Adh-1jd,Adh-1je,Adh-1jf,Adh-1jg,Adh-1jh,Adh-1ji,Adh-1jj,Adh-1jk,Adh-1jl,Adh-1jm,Adh-1jn,Adh-1jo,Adh-1jp,Adh-1jq,Adh-1jr,Adh-1js,Adh-1jt,Adh-1ju,Adh-1jv,Adh-1jw,Adh-1jx,Adh-1jy,Adh-1jz,Adh-1ka,Adh-1kb,Adh-1kc,Adh-1kd,Adh-1ke,Adh-1kf,Adh-1kg,Adh-1kh,Adh-1ki,Adh-1kj,Adh-1kl,Adh-1km,Adh-1kn,Adh-1ko,Adh-1kp,Adh-1kq,Adh-1kr,Adh-1ks,Adh-1kt,Adh-1ku,Adh-1kv,Adh-1kw,Adh-1kx,Adh-1ky,Adh-1kz,Adh-1la,Adh-1lb,Adh-1lc,Adh-1ld,Adh-1le,Adh-1lf,Adh-1lg,Adh-1lh,Adh-1li,Adh-1lj,Adh-1lk,Adh-1ll,Adh-1lm,Adh-1ln,Adh-1lo,Adh-1lp,Adh-1lq,Adh-1lr,Adh-1ls,Adh-1lt,Adh-1lu,Adh-1lv,Adh-1lw,Adh-1lx,Adh-1ly,Adh-1lz,Adh-1ma,Adh-1mb,Adh-1mc,Adh-1md,Adh-1me,Adh-1mf,Adh-1mg,Adh-1mh,Adh-1mi,Adh-1mj,Adh-1mk,Adh-1ml,Adh-1mm,Adh-1mn,Adh-1mo,Adh-1mp,Adh-1mq,Adh-1mr,Adh-1ms,Adh-1mt,Adh-1mu,Adh-1mv,Adh-1mw,Adh-1mx,Adh-1my,Adh-1mz,Adh-1na,Adh-1nb,Adh-1nc,Adh-1nd,Adh-1ne,Adh-1nf,Adh-1ng,Adh-1nh,Adh-1ni,Adh-1nj,Adh-1nk,Adh-1nl,Adh-1nm,Adh-1nn,Adh-1no,Adh-1np,Adh-1nq,Adh-1nr,Adh-1ns,Adh-1nt,Adh-1nu,Adh-1nv,Adh-1nw,Adh-1nx,Adh-1ny,Adh-1nz,Adh-1oa,Adh-1ob,Adh-1oc,Adh-1od,Adh-1oe,Adh-1of,Adh-1og,Adh-1oh,Adh-1oi,Adh-1oj,Adh-1ok,Adh-1ol,Adh-1om,Adh-1on,Adh-1oo,Adh-1op,Adh-1oq,Adh-1or,Adh-1os,Adh-1ot,Adh-1ou,Adh-1ov,Adh-1ow,Adh-1ox,Adh-1oy,Adh-1oz,Adh-1pa,Adh-1pb,Adh-1pc,Adh-1pd,Adh-1pe,Adh-1pf,Adh-1pg,Adh-1ph,Adh-1pi,Adh-1pj,Adh-1pk,Adh-1pl,Adh-1pm,Adh-1pn,Adh-1po,Adh-1pp,Adh-1pq,Adh-1pr,Adh-1ps,Adh-1pt,Adh-1pu,Adh-1pv,Adh-1pw,Adh-1px,Adh-1py,Adh-1pz,Adh-1qa,Adh-1qb,Adh-1qc,Adh-1qd,Adh-1qe,Adh-1qf,Adh-1qg,Adh-1qh,Adh-1qi,Adh-1qj,Adh-1qk,Adh-1ql,Adh-1qm,Adh-1qn,Adh-1qo,Adh-1qp,Adh-1qq,Adh-1qr,Adh-1qs,Adh-1qt,Adh-1qu,Adh-1qv,Adh-1qw,Adh-1qx,Adh-1qy,Adh-1qz,Adh-1ra,Adh-1rb,Adh-1rc,Adh-1rd,Adh-1re,Adh-1rf,Adh-1rg,Adh-1rh,Adh-1ri,Adh-1rj,Adh-1rk,Adh-1rl,Adh-1rm,Adh-1rn,Adh-1ro,Adh-1rp,Adh-1rq,Adh-1rr,Adh-1rs,Adh-1rt,Adh-1ru,Adh-1rv,Adh-1rw,Adh-1rx,Adh-1ry,Adh-1rz,Adh-1sa,Adh-1sb,Adh-1sc,Adh-1sd,Adh-1se,Adh-1sf,Adh-1sg,Adh-1sh,Adh-1si,Adh-1sj,Adh-1sk,Adh-1sl,Adh-1sm,Adh-1sn,Adh-1so,Adh-1sp,Adh-1sq,Adh-1sr,Adh-1ss,Adh-1st,Adh-1su,Adh-1sv,Adh-1sw,Adh-1sx,Adh-1sy,Adh-1sz,Adh-1ta,Adh-1tb,Adh-1tc,Adh-1td,Adh-1te,Adh-1tf,Adh-1tg,Adh-1th,Adh-1ti,Adh-1tj,Adh-1tk,Adh-1tl,Adh-1tm,Adh-1tn,Adh-1to,Adh-1tp,Adh-1tq,Adh-1tr,Adh-1ts,Adh-1tt,Adh-1tu,Adh-1tv,Adh-1tw,Adh-1tx,Adh-1ty,Adh-1tz,Adh-1ua,Adh-1ub,Adh-1uc,Adh-1ud,Adh-1ue,Adh-1uf,Adh-1ug,Adh-1uh,Adh-1ui,Adh-1uj,Adh-1uk,Adh-1ul,Adh-1um,Adh-1un,Adh-1uo,Adh-1up,Adh-1uq,Adh-1ur,Adh-1us,Adh-1ut,Adh-1uu,Adh-1uv,Adh-1uw,Adh-1ux,Adh-1uy,Adh-1uz,Adh-1va,Adh-1vb,Adh-1vc,Adh-1vd,Adh-1ve,Adh-1vf,Adh-1vg,Adh-1vh,Adh-1vi,Adh-1vj,Adh-1vk,Adh-1vl,Adh-1vm,Adh-1vn,Adh-1vo,Adh-1vp,Adh-1vq,Adh-1vr,Adh-1vs,Adh-1vt,Adh-1vu,Adh-1vv,Adh-1vw,Adh-1vx,Adh-1vy,Adh-1vz,Adh-1wa,Adh-1wb,Adh-1wc,Adh-1wd,Adh-1we,Adh-1wf,Adh-1wg,Adh-1wh,Adh-1wi,Adh-1wj,Adh-1wk,Adh-1wl,Adh-1wm,Adh-1wn,Adh-1wo,Adh-1wp,Adh-1wq,Adh-1wr,Adh-1ws,Adh-1wt,Adh-1wu,Adh-1wv,Adh-1ww,Adh-1wx,Adh-1wy,Adh-1wz,Adh-1xa,Adh-1xb,Adh-1xc,Adh-1xd,Adh-1xe,Adh-1xf,Adh-1xg,Adh-1xh,Adh-1xi,Adh-1xj,Adh-1xk,Adh-1xl,Adh-1xm,Adh-1xn,Adh-1xo,Adh-1xp,Adh-1xq,Adh-1xr,Adh-1xs,Adh-1xt,Adh-1xu,Adh-1xv,Adh-1xw,Adh-1xx,Adh-1xy,Adh-1xz,Adh-1ya,Adh-1yb,Adh-1yc,Adh-1yd,Adh-1ye,Adh-1yf,Adh-1yg,Adh-1yh,Adh-1yi,Adh-1yj,Adh-1yk,Adh-1yl,Adh-1ym,Adh-1yn,Adh-1yo,Adh-1yp,Adh-1yq,Adh-1yr,Adh-1ys,Adh-1yt,Adh-1yu,Adh-1yv,Adh-1yw,Adh-1yx,Adh-1yy,Adh-1yz,Adh-1za,Adh-1zb,Adh-1zc,Adh-1zd,Adh-1ze,Adh-1zf,Adh-1zg,Adh-1zh,Adh-1zi,Adh-1zj,Adh-1zk,Adh-1zl,Adh-1zm,Adh-1zn,Adh-1zo,Adh-1zp,Adh-1zq,Adh-1zr,Adh-1zs,Adh-1zt,Adh-1zu,Adh-1zv,Adh-1zw,Adh-1zx,Adh-1zy,Adh-1zz	alcohol dehydrogenase 1 (class I), alcohol dehydrogenase 1 complex class I temporal, alcohol dehydrogenase 1 temporal, liver, alcohol dehydrogenase 1, electrophoretic class I alcohol dehydrogenase, expressed sequence AI194826	alcohol dehydrogenase 1 (class I) alcohol dehydrogenase 4 (class II), pi polypeptide alcohol dehydrogenase 4 (class II), pi polypeptide alcohol dehydrogenase 6A (class V) alcohol dehydrogenase 6A (class V)
Adh4	NM_011996.2	Adh2,Adh4,alcohol dehydrogenase 4 (class II), pi polypeptide, mouse class II type ADH	alcohol dehydrogenase 4 (class II), pi polypeptide	
Adh6a	NM_026945.1	1810009C16Rk,Adh5a,Adh6a,RIKEN cDNA 1810009C16 gene,alcohol dehydrogenase 6A (class V)	alcohol dehydrogenase 6A (class V)	
Adipoq	NM_009605.4	APN,Adc,Acrop30,Ad,Adipob,GPB28,MGD-MRK-35134,adipon adipocyte complement related protein, adipocyte, C1Q and collagen domain containing, adiponectin, adiponectin, C1Q and collagen domain containing, ap1M1	adiponectin, C1Q and collagen domain containing adiponectin receptor 1	
Adipor1	NM_028320.3	281003111Rk,Adipor1,RIKEN cDNA 281003111 gene, adiponectin receptor 1	adiponectin receptor 1	
Adpgk	NM_028121.2	2610017G09Rk,ADP-dependent glucokinase,Adpgk,C77577,MGI:2143387,RIKEN cDNA 2610017G09 gene, expressed sequence C77577	ADP-dependent glucokinase	
Am2	NM_001037779.2	Am2,Gm1313,H210,LOC383619,absent in melanoma 2, gene model 1313, (NCBI)	absent in melanoma 2	
Akr1b7	NM_009731.2	Akr1b7,Ar,ap,MGD-MRK-18747,MVDP,aldo-keto reductase family 1, member B7, androgen regulated vas deferens protein	aldo-keto reductase family 1, member B7	
Akr1b8	NM_008012.1	Akr1b8,Fgfrp,MGD-MRK-33600,MGD-MRK-36248,aldo-keto reductase family 1, member B8, fibroblast growth factor regulated protein	aldo-keto reductase family 1, member B8	
Akt1	NM_001165894.1	AKT,AKT1,MGD-MRK-1257,PKB,PKB,AKT,PKB,thymoma viral proto-oncogene 1	thymoma viral proto-oncogene 1	
Alad	NM_001276446.1	Alad,L,MGD-MRK-11931,aminolevulinatase, delta-, dehydratase,delta-aminolevulinatase dehydratase	aminolevulinatase, delta-, dehydratase	
Aldh1	NM_007437.4	A194803,Ald-3,Ald-3r,Ald-3s,Ald-3t,Ald-3u,Ald-3v,Ald-3w,Ald-3x,Ald-3y,Ald-3z,Ald-4,Ald-4r,FALDH,MGD-MRK-1207,MGD-MRK-1208,MGD-MRK-1214,MGD-MRK-1215,MGD-MRK-16379,MGD-MRK-16380,MGI:2144079,MGI:99597,MGI:99598,aldehyde dehydrogenase 3 regulator,aldehyde dehydrogenase 3, microsomal,aldehyde dehydrogenase 4, liver microsomal (class 3),aldehyde dehydrogenase 4, liver microsomal (class 3) regulator,aldehyde dehydrogenase family 3, subfamily A2, expressed sequence AI194803	aldehyde dehydrogenase family 3, subfamily A2	
Aldh2	NM_01127338.1	Aldh2,Aldh2,alcohol dehydrogenase family 7, member A1,antiquitin	aldehyde dehydrogenase family 7, member A1	
Aldh9a1	NM_019993.3	A1,expressed sequence tag mouse EST 40	aldehyde dehydrogenase 9, subfamily A1	
Aldob	NM_144903.2	Aldob,Aldob,BC016435,MGD-MRK-1277,MGD-MRK-1279,MGI:2387622,aldolase B, fructose-bisphosphate, cDNA sequence BC016435	aldolase B, fructose-bisphosphate	
Amot1	NM_001081395.1	2310010G08Rk,2310010G12Rk,4932416D09Rk,Amot11,JEAP,MGI:1916817,MGI:1917651,RIKEN cDNA 2310010G08 gene,RIKEN cDNA 2310010G12 gene,RIKEN cDNA 4932416D09 gene,angiomin-like 1	angiomin-like 1	
Amot2	NM_019764.2	AW549739,Amot2,C79691,Lccp,MASCOT,MGI:2143321,MGI:2143406,angiomin-like 2, expressed sequence AW549739,expressed sequence C79691,mkIAA0989	angiomin-like 2	
Anapc1	NM_008569.2	2510012008Rk,AD47775,AW55835,AW547281,Anapc1,ApC1,MGD-MRK-23961,MGI:1923295,MGI:2138834,MGI:2139095,MGI:2139376,Mcpr,RIKEN cDNA 2610021003 gene,anaphase promoting complex subunit 1, expressed sequence AI047775, expressed sequence AI853536,expressed sequence AW547281,meiotic check point regulator,tsg24	anaphase promoting complex subunit 1	
Anapc10	NM_026904.2	1500026N15Rk,AS83003M23Rk,Anapc10,ApC10,MGI:2441829,RIKEN cDNA 1500026N15 gene,RIKEN cDNA AS83003M23 gene,anaphase promoting complex subunit 10	anaphase promoting complex subunit 10	
Anapc7	NM_019805.4	APC7,AW54589,Anapc7,MGI:2142117,anaphase promoting complex subunit 7, expressed sequence AW54589,predilabetic NOD sera-reactive autoantigen	anaphase promoting complex subunit 7	
Angptl4	NM_020581.1	Angptl4,BK89,FIAP,HFARP,NG27,angiopoietin-like 4	angiopoietin-like 4	
Ap1g1	NM_009677.3	AA409002,AU041323,AW551707,Adtg,Ap1g1,D8Ertd374e,DNA segment, Chr 8, ERATO Doi 374, expressed,MGD-MRK-18748,MGI:1196381,MGI:2142471,MGI:2142715,MGI:2142805,adaptin, gamma, adaptor protein complex AP-1, gamma 1 subunit, expressed sequence AA409002, expressed sequence AU041323, expressed sequence AW551707, gamma adaptin	adaptor protein complex AP-1, gamma 1 subunit	
Ap1s1	NM_007457.2	AP19,Ap1s1,adaptor protein complex AP-1, sigma 1	adaptor protein complex AP-1, sigma 1	
Ap2s1	NM_198613.2	AU043088,Ap2s1,MGC:62945,adaptor-related protein complex 2, sigma 1 subunit,expressed sequence AU043088	adaptor-related protein complex 2, sigma 1 subunit	
Apc	NM_007462.3	AU047805,APC, WNT signaling pathway regulator,AU020952,AW124434,ApC,CCL1,MGD-MRK-1347,MGD-MRK-16245,MGI:2147196,MGI:2147197,MGI:2147198,MGI:2147199,MGI:2147200,MGI:2147201,MGI:2147202,MGI:2147203,MGI:2147204,MGI:2147205,MGI:2147206,MGI:2147207,MGI:2147208,MGI:2147209,MGI:2147210,MGI:2147211,MGI:2147212,MGI:2147213,MGI:2147214,MGI:2147215,MGI:2147216,MGI:2147217,MGI:2147218,MGI:2147219,MGI:2147220,MGI:2147221,MGI:2147222,MGI:2147223,MGI:2147224,MGI:2147225,MGI:2147226,MGI:2147227,MGI:2147228,MGI:2147229,MGI:2147230,MGI:2147231,MGI:2147232,MGI:2147233,MGI:2147234,MGI:2147235,MGI:2147236,MGI:2147237,MGI:2147238,MGI:2147239,MGI:2147240,MGI:2147241,MGI:2147242,MGI:2147243,MGI:2147244,MGI:2147245,MGI:2147246,MGI:2147247,MGI:2147248,MGI:2147249,MGI:2147250,MGI:2147251,MGI:2147252,MGI:2147253,MGI:2147254,MGI:2147255,MGI:2147256,MGI:2147257,MGI:2147258,MGI:2147259,MGI:2147260,MGI:2147261,MGI:2147262,MGI:2147263,MGI:2147264,MGI:2147265,MGI:2147266,MGI:2147267,MGI:2147268,MGI:2147269,MGI:2147270,MGI:2147271,MGI:2147272,MGI:2147273,MGI:2147274,MGI:2147275,MGI:2147276,MGI:2147277,MGI:2147278,MGI:2147279,MGI:2147280,MGI:2147281,MGI:2147282,MGI:2147283,MGI:2147284,MGI:2147285,MGI:2147286,MGI:2147287,MGI:2147288,MGI:2147289,MGI:2147290,MGI:2147291,MGI:2147292,MGI:2147293,MGI:2147294,MGI:2147295,MGI:2147296,MGI:2147297,MGI:2147298,MGI:2147299,MGI:2147300,MGI:2147301,MGI:2147302,MGI:2147303,MGI:2147304,MGI:2147305,MGI:2147306,MGI:2147307,MGI:2147308,MGI:2147309,MGI:2147310,MGI:2147311,MGI:2147312,MGI:2147313,MGI:2147314,MGI:2147315,MGI:2147316,MGI:2147317,MGI:2147318,MGI:2147319,MGI:2147320,MGI:2147321,MGI:2147322,MGI:2147323,MGI:2147324,MGI:2147325,MGI:2147326,MGI:2147327,MGI:2147328,MGI:2147329,MGI:2147330,MGI:2147331,MGI:2147332,MGI:2147333,MGI:2147334,MGI:2147335,MGI:2147336,MGI:2147337,MGI:2147338,MGI:2147339,MGI:2147340,MGI:2147341,MGI:2147342,MGI:2147343,MGI:2147344,MGI:2147345,MGI:2147346,MGI:2147347,MGI:2147348,MGI:2147349,MGI:2147350,MGI:2147351,MGI:2147352,MGI:2147353,MGI:2147354,MGI:2147355,MGI:2147356,MGI:2147357,MGI:2147358,MGI:2147359,MGI:2147360,MGI:2147361,MGI:2147362,MGI:2147363,MGI:2147364,MGI:2147365,MGI:2147366,MGI:2147367,MGI:2147368,MGI:2147369,MGI:2147370,MGI:2147371,MGI:2147372,MGI:2147373,MGI:2147374,MGI:2147375,MGI:2147376,MGI:2147377,MGI:2147378,MGI:2147379,MGI:2147380,MGI:2147381,MGI:2147382,MGI:2147383,MGI:2147384,MGI:2147385,MGI:2147386,MGI:2147387,MGI:2147388,MGI:2147389,MGI:2147390,MGI:2147391,MGI:2147392,MGI:2147393,MGI:2147394,MGI:2147395,MGI:2147396,MGI:2147397,MGI:2147398,MGI:2147399,MGI:2147400,MGI:2147401,MGI:2147402,MGI:2147403,MGI:2147404,MGI:2147405,MGI:2147406,MGI:2147407,MGI:2147408,MGI:2147409,MGI:2147410,MGI:2147411,MGI:2147412,MGI:2147413,MGI:2147414,MGI:2147415,MGI:2147416,MGI:2147417,MGI:2147418,MGI:2147419,MGI:2147420,MGI:2147421,MGI:2147422,MGI:2147423,MGI:2147424,MGI:2147425,MGI:2147426,MGI:2147427,MGI:2147428,MGI:2147429,MGI:2147430,MGI:2147431,MGI:2147432,MGI:2147433,MGI:2147434,MGI:2147435,MGI:2147436,MGI:2147437,MGI:2147438,MGI:2147439,MGI:2147440,MGI:2147441,MGI:2147442,MGI:2147443,MGI:2147444,MGI:2147445,MGI:2147446,MGI:2147447,MGI:2147448,MGI:2147449,MGI:2147450,MGI:2147451,MGI:2147452,MGI:2147453,MGI:2147454,MGI:2147455,MGI:2147456,MGI:2147457,MGI:2147458,MGI:2147459,MGI:2147460,MGI:2147461,MGI:2147462,MGI:2147463,MGI:2147464,MGI:2147465,MGI:2147466,MGI:2147467,MGI:2147468,MGI:2147469,MGI:2147470,MGI:2147471,MGI:2147472,MGI:2147473,MGI:2147474,MGI:2147475,MGI:2147476,MGI:2147477,MGI:2		

Atp6v1e1	NM_007510.2	2410029D23RIK,ATPase, H+ transporting lysosomal (vacuolar proton pump), 32 kDa,ATPase, H+ transporting, lysosomal 31kDa, V1 subunit E,ATPase, H+ transporting, lysosomal V1 subunit E1,AtP6e,AtP6e2,AtP6v1e,AtP6v1e1,D6Erd385E,DNA segment, Chr 6, ERATO D01 385, expressed,E2,H(+)-ATPase E-like protein,H+ ATPase subunit E,MGI:1261800,MGI:1924021,RIKEN cDNA 2410029D23 gene,lysosomal 31kDa	ATPase, H+ transporting, lysosomal V1 subunit E1
Atp6v1f	NM_025381.2	1110004616RIK,ATPase, H+ transporting, lysosomal V1 subunit F,AtP6v1,RIKEN cDNA 1110004616 gene	ATPase, H+ transporting, lysosomal V1 subunit F
Atp6v1g2	NM_023179.3	150002D01RIK,ATPase, H+ transporting, lysosomal (vacuolar proton pump),ATPase, H+ transporting, lysosomal V1 subunit G2,AtP6g2,ATP6g2,NG38,RIKEN cDNA 150002D01 gene,VAG2,lysosomal 13kDa	ATPase, H+ transporting, lysosomal V1 subunit G2
AtP7a	NM_001109757.2	ATPase, Cu++ transporting, alpha polypeptide,AtP7a,Bio,MGD-MRK-12339,MGD-MRK-1578,MGD-MRK-16161,MNK,Menkes protein,Mo,blotchy,br,mottled AI323647,AXL receptor tyrosine kinase,Ark,AX,MGD-MRK-	ATPase, Cu++ transporting, alpha polypeptide
Axl	NM_009465.3	15343,MGI:2141908,MGI:98896,Tyros7,Ufo,expressed sequence AI323647,ufo oncogene homolog	AXL receptor tyrosine kinase
Barrf1	NM_001039211.2	Barrf1,Barrf1,C78287,MGI:2147785,barrrier to autointegration factor 1,expressed sequence C78287	barrier to autointegration factor 1
Bax	NM_007227.3	BC12-associated X protein,Bax,MGD-MRK-16487	BC12-associated X protein
Bcap31	NM_012060.4	B cell receptor associated protein 31,BAP31,Bcap31	B cell receptor associated protein 31
Bcl2	NM_009741.3	AW986256,B cell leukemia/lymphoma 2,Bcl-2,Bcl2,C430015F12RIK,D630044D05RIK,D830018M01RIK,MGD-MRK-1524,MGD-MRK-1526,MGI:2138629,MGI:2442315,MGI:2444619,MGI:2444682,RIKEN cDNA C430015F12 gene,RIKEN cDNA D630044D05 gene,RIKEN cDNA D830018M01 gene,expressed sequence	B cell leukemia/lymphoma 2
Bcl2l1	NM_009743.4	BC12-like 1,BC1Xl,BC1Xl,BC1Xl,BC2l1,BCX,MGD-MRK-1527,bcl-x	BC12-like 1
Bcl3	NM_007464.3	AW107670,Ap2,Birc3,HPA2,MGI:2143290,MIAP2,MIHC,RNF49,apoptosis inhibitor 1,baculoviral IAP repeat-containing 3,cIAP-2,cIAP2,expressed sequence AW107670	sub-optimal isoform coverage due to non-overlapping transcript variants
Birc3	NM_007549.2	B lymphoid kinase,BK,MGD-MRK-1577	baculoviral IAP repeat-containing 3
Bklc	NM_007549.2	B lymphoid kinase,BK,MGD-MRK-1577	B lymphoid kinase
Bmp10	NM_009756.2	2711,b2b2711C,bone morphogenetic protein 10	bone morphogenetic protein 10
Bpi	NM_177850.3	9230105K17RIK,Bpi,Bpif1,RIKEN cDNA 9230105K17 gene,bactericidal permeability increasing protein 9930012E13RIK,AA120551,AA387315,AA473386,Braf,Braf transforming gene,Braf transforming gene 2,Braf-2,Braf2,C87398,D6Erd31e,DNA segment, Chr 6, ERATO D01 631, expressed,MGD-MRK-1618,MGD-MRK-1619,MGD-MRK-1621,MGI:1271749,MGI:2141786,MGI:2442526,MGI:3034546,MGI:3034893,MGI:3034940,RIKEN cDNA 9930012E13 gene,expressed sequence AA120551,expressed sequence AA387315,expressed sequence AA473386,expressed sequence C87398	bactericidal permeability increasing protein
Braf	NM_139294.5	AA473386,expressed sequence C87398	Braf transforming gene
Brrf3	NM_001081315.1	AI413466,AW493400,Brrf3,MGC-58603,MGI:2147066,bromodomain and PHD finger containing, 3,expressed sequence AI413466,expressed sequence AW493400,mkAA1286	bromodomain and PHD finger containing, 3
Bt2	NM_198095.2	23100150RIK,Bt-2,Bt2,C87040,DRG,MGI:2142879,RIKEN cDNA 231001510 gene,bone marrow stromal cell antigen 2,expressed sequence C87040	bone marrow stromal cell antigen 2
C1s1	NM_144938.2	AA95948,AD255193,Al327365,C1s,C1s1,EST AI255193,MGI:1353567,MGI:2141372,MGI:2141399,complement component 1, s subcomponent,complement component 1, s subcomponent 1,expressed sequence AA95948,expressed sequence AI327365	complement component 1, s subcomponent 1
C3	XM_011246258.1	AI255234,C3,MGD-MRK-1700,MGI:2146809,Plp,acylation stimulating protein,complement component 3,complement factor 3,expressed sequence AI255234	complement component 3
C3ar1	NM_009779.2	C3Ar,C3ar1,anaphylatoxin C3a receptor,complement component 3a receptor 1	complement component 3a receptor 1
C6	NM_016704.2	AW111623,C6,MGD-MRK-1711,MGI:2146192,complement component 6,expressed sequence AW111623	complement component 6
C8a	NM_146148.2	C8a,complement component 8, alpha polypeptide	complement component 8, alpha polypeptide
C8b	NM_133882.2	49304398RIK,AA599327,C8b,MGD-MRK-1714,MGI:1921221,MGI:2140338,RIKEN cDNA 49304398D2 gene,complement component 8, beta polypeptide,expressed sequence AI595927	complement component 8, beta polypeptide
C9	NM_013485.1	C9,complement component 9	complement component 9
Calm1	NM_009790.4	AI256814,Al327027,Al461935,Al024000,Calm1,MGD-MRK-1734,MGI:2144778,MGI:2144797,MGI:2144834,MGI:2144926,calmodulin 1,expressed sequence	calmodulin 1
Calp5	NM_007602.3	AI256814,expressed sequence AI327027,expressed sequence AI461935,expressed sequence Al024000	calpain 5
Card9	NM_001037747.1	Card9,Gm782,LOC325259,caspase recruitment domain family, member 9,gene model 782, (NCBI)	caspase recruitment domain family, member 9
Casp12	NM_009808.4	Casp12,caspase 12	caspase 12
Casp3	NM_009810.2	A83004C1RIK,AC-3,Apopain,CC3,PPP32,Casp3,Caspase-3,MGD-MRK-36315,MGI:2442726,MGI:3717434,RIKEN cDNA A83004C14 gene,Yama,caspase 3,melody,mldy	caspase 3
Casp4	NM_007609.2	Casp4,Caspase-4,MGD-MRK-36276,caspase 11, apoptosis-related cysteine peptidase,caspase 11, apoptosis-related cysteine peptidase,apc-3	caspase 4, apoptosis-related cysteine peptidase
Casp6	NM_009811.3	Casp6,Mch2,caspase 6,mCASP-6	caspase 6
Casp7	NM_007611.2	AI314680,CMH-1,Casp7,ICE-IAP3,MGD-MRK-38428,MGI:2147501,Mch3,caspase 7,caspase-7,expressed sequence AI314680	caspase 7
Casp8	NM_009812.2	Casp8,Cas8e-8,BICE,MACH,Mch5,caspase 8	caspase 8
Cat	NM_009804.2	Cat-1,Cat1,Cat-1,MGD-MRK-1765,MGD-MRK-1766,MGD-MRK-2185,catalase,catalase 1	catalase
Cbl	NM_007619.2	4732447J05RIK,Casitas B-lineage lymphoma,Casitas B-lineage lymphoma 2,Cbl,Cbl-2,MGD-MRK-1779,MGD-MRK-1780,MGD-MRK-1782,MGI:2443367,RIKEN cDNA 4732447J05 gene-Cbl,cbl	Casitas B-lineage lymphoma
CCR19	NM_011888.2	CK011,Ccl19,Sca19,chemokine (C-C motif) ligand 19,exodus-3,small inducible cytokine A19	chemokine (C-C motif) ligand 19
Cd2	NM_011333.3	AI323594,Cd2,HC11,MCAF,MCP-1,MCP1,MGD-MRK-14333,MGD-MRK-14413,MGI:2144120,SMC-CF,Soy2,Sigle,chemokine (C-C motif) ligand 2,expressed sequence AI323594,monocyte chemoattractant protein-1,monocyte chemoattractant protein,small inducible cytokine A2,small inducible gene JE	chemokine (C-C motif) ligand 2
Cd4	NM_013652.1	AT744.1,Act-2,Cd4,MGD-MRK-12242,MGD-MRK-14335,MIP-1 beta,MIP-1B,Mip1b,Sca4,chemokine (C-C motif) ligand 4,macrophage inflammatory protein-1 beta,small inducible cytokine A4	chemokine (C-C motif) ligand 4
Ccn2	NM_010217.2	Ccn2,Ctgf,Fsp12,Hcs24,MGD-MRK-9804,cellular communication network factor 2,connective tissue growth factor,oblast induced secreted protein,hypertrophic chondrocyte-specific gene product 24	cellular communication network factor 2
Ccn2	NM_009828.2	AA40589,Ccn-1,Ccn1,Ccna,Ccna2,Cyca,Cyca2,Cyca,MGD-MRK-1805,MGD-MRK-1807,MGD-MRK-1809,MGD-MRK-2264,MGD-MRK-37106,MGI:2139562,cyclin A,cyclin A2,expressed sequence AA40589	cyclin A2
Ccr1	NM_009912.4	Ccr1,Cmkbr1,MGD-MRK-26055,chemokine (C-C motif) receptor 1,chemokine (C-C) receptor 1	chemokine (C-C motif) receptor 1
Ccr2	NM_009915.2	CC-KR-2,CCR2A,CCR2B,CCR2,CCR2A,CCR2B,Ccr2,Cmkbr2,MGD-MRK-33876,chemokine (C-C motif) receptor 2	chemokine (C-C motif) receptor 2
Ccr4	NM_009916.2	CC-KR-4,Ccr4,Cmkbr4,MGD-MRK-36401,MGD-MRK-37445,chemokine (C-C motif) receptor 4,chemokine (C-C) receptor 4	chemokine (C-C motif) receptor 4
Ccr7	NM_007719.2	CD197,Ccr7,Cmkbr7,EBI1,EBI1h,Epstein-Barr virus induced gene 1 homolog,MGD-MRK-23848,chemokine (C-C motif) receptor 7,chemokine (C-C) receptor 7	chemokine (C-C motif) receptor 7
Ccs	XM_006316495.1	CCS,Ccs,Csd,copper chaperone for superoxide dismutase	copper chaperone for superoxide dismutase
Cd14	NM_009841.3	CD14 antigen,CD14,MGD-MRK-1831	CD14 antigen
CD163	NM_053094.2	CD163 antigen,CD163	CD163 antigen
CD180	NM_008533.2	CD180 antigen,CD180,Ly78,RP105,lymphocyte antigen 78	CD180 antigen
CD19	NM_009844.2	AW495831,CD19 antigen,CD19,MGD-MRK-1833,MGI:2142241,expressed sequence AW495831	CD19 antigen
CD209e	NM_130905.2	CD209e antigen,CD209e,SIGNR4,mSIGNR4	CD209e antigen
CD34	NM_00111059.1	284,C9,1,CD244 molecule,CD244 molecule A,CD244 natural killer cell receptor	CD244 molecule A
CD36	NM_007643.3	284,CD244,CD244a,F30046015RIK,MGD-MRK-38339,MGI:2442562,Nmk,RIKEN cDNA F730046015 gene,nm MHC restricted killing associated	CD34 antigen
CD39	NM_013487.2	AU040960,CD34 antigen,CD34,MGD-MRK-1849,MGI:2138487,expressed sequence AU040960	CD36 molecule,CD36,FAT,MGD-MRK-36478,Scar3b,fatty acid translocase
CD3e	NM_007648.4	CD3 antigen,delta polypeptide,CD3e,MGD-MRK-14696,MGD-MRK-1852,T3-delta chain,T3d	CD3 antigen, delta polypeptide
CD3g	NM_009850.2	AS04783,CD3 antigen, epsilon polypeptide,CD3g,epsilon chain,CD3e,MGD-MRK-14697,MGD-MRK-1853,MGI:2143086,T3-epsilon chain,T3e,expressed sequence AI504783	CD3 antigen, epsilon polypeptide
CD3g	NM_009850.2	CD3 antigen,gamma polypeptide,CD3g,Ctg-3,Ctg3,MGD-MRK-14698,MGD-MRK-1854,MGD-MRK-2212,MGD-MRK-2213,T3-gamma chain,T3g	CD3 antigen, gamma polypeptide
CD4	NM_013488.2	CD4 antigen,Cd4,l374,Ly-4,MGD-MRK-11981,MGD-MRK-1858,lymphocyte antigen 4	CD4 antigen
CD44	NM_009851.2	AU023126,AW1121933,AW146109,CD44 antigen,CD44 HERMES,Ly-24,MGD-MRK-11964,MGD-MRK-12821,MGD-MRK-1863,MGI:2139311,MGI:2139322,MGI:3033431,Pgp-1,expressed sequence AU023126,expressed sequence AW1121933,expressed sequence AW146109,lymphocyte antigen 24,phagocyte glycoprotein 1	CD44 antigen
CD6	NM_001037801.2	CD6 antigen,Cd6,MGD-MRK-24451	CD6 antigen
CD68	NM_001291058.1	CD68 antigen,CD68,Lamp4,MGD-MRK-1868,Scard1,gp110,macrosialin	CD68 antigen
CD84	NM_001257472.1	AI33013022RIK,CD84 antigen,CD84,Cd84,MGI:2442272,RIKEN cDNA AI33013022 gene,SLAMF5	CD84 antigen
CD86	NM_019388.3	B7-2,B7-2,CD28 antigen ligand,CD86 antigen,CD282,CD86,Ly-58,Ly58,Mb7-2,MGD-MRK-12000,MGD-MRK-12043,MGD-MRK-18572,MGD-MRK-18580,lymphocyte antigen 58	CD86 antigen
CD8a	NM_001081110.2	BB154331,CD8 antigen, alpha chain,CD8a,Ly-2,Ly-35,Ly-B,Lyt-2,MGD-MRK-11958,MGD-MRK-11976,MGD-MRK-12074,MGD-MRK-1872,MGI:2141733,T-lymphocyte antigen 2,expressed sequence	CD8 antigen, alpha chain
CD8b1	NM_009858.2	BB154331,lymphocyte antigen 2,lymphocyte antigen 35	CD8 antigen, beta chain 1
CD8b2	NM_007664.4	CD8 antigen,beta chain 1,CD8b1,Ly-3,Ly-35,Ly-35,MGD-MRK-11970,MGD-MRK-12075,MGD-MRK-1873,T-lymphocyte antigen 3,lymphocyte antigen 3	CD8 antigen, beta chain 2
CDH5	NM_009868.3	Cdh2,MGD-MRK-1785,MGD-MRK-1882,N-CAD,N-cadherin,Ncad,cadherin 2,cadherin,N-784/cadherin-5,AA408225,CD144,Cdh5,MGD-MRK-32096,MGI:2142402,VE-Cad,VE-cadherin,VECD,VEcad,cadherin 5,expressed sequence AA408225	cadherin 5
Cdk4	NM_009870.3	CDK-2-related kinase 3,Cdk4,Crk3,MGD-MRK-1884,MGD-MRK-2147,MGI:88504,cyclin-dependent kinase 4,p34-PSK-13/cdk4	cyclin-dependent kinase 4
Cdkn1a	NM_007669.4	CAP20,CDK1,CIP1,Cdkn1a,Cdkn1a,MGD-MRK-16760,MGD-MRK-25990,P21,SDI1,Waf1,cyclin dependent kinase inhibitor,cyclin-dependent kinase inhibitor 1A (P21),mda6,p21-cip1/CIP1,p21Cip1,p21WAF	cyclin-dependent kinase inhibitor 1A (P21)
Cdkn2c	NM_007671.2	C77269,Cdkn2c,MK4c,MGD-MRK-33058,MGI:2140654,cyclin dependent kinase inhibitor 2C,expressed sequence C77269,p18,p18INK4c	cyclin dependent kinase inhibitor 2C
Cdon	NM_021339.2	CAM-related/down-regulated by oncogenes,CDO,Cdon,cell adhesion molecule-related/down-regulated by oncogenes	cell adhesion molecule-related/down-regulated by oncogenes
Ceacam3	NM_054059.1	Ceacam3,EG384557,MGI:1891356,Psg24,carcinoembryonic antigen-related cell adhesion molecule 3,cea12,predicted gene, EG384557,pregnancy-specific glycoprotein 24	carcinoembryonic antigen-related cell adhesion molecule 3
Cebpa	NM_007678.3	C/EBP alpha,C/ebpalpha,CCAAT/enhancer binding protein (C/EBP),CCAAT/enhancer binding protein (C/EBP),alpha	CCAAT/enhancer binding protein (C/EBP), alpha
Chf	NM_009888.3	Chf,Chf,MGD-MRK-12706,MGD-MRK-14291,MGD-MRK-14293,MGD-MRK-1957,Mud-1,Sas-1,Sas1,complement component factor h,serum antigenic substance 1	complement component factor h
Chfr1	NM_015780.2	AI194696,Chfr1,Chfr1,complement component factor h-like 1,complement factor H-related 1,expressed sequence AI194696	complement factor H-related 1
Chfr2	NM_00102575.2	BC026782,Chfr2,FRH-8,cDNA sequence BC026782,complement factor H-related 2	complement factor H-related 2
Chf	NM_007686.2	Chf,MGD-MRK-33616,complement component factor h	complement component factor h

Ch (NM_009888)

		2310024N1BRK, A430105C05Rik, A646576, AU021929, CASP8 and FADD-like apoptosis regulator, Cash, Casper, Cfar, Flip, MGI:1096876, MGI:1916820, MGI:1925024, MGI:2138307, MGI:2138466, RIKEN cDNA 2310024N18 gene, RIKEN cDNA A430105C05 gene, c-Flip, caspase homolog, expressed sequence A646576, expressed sequence AU021929	CASP8 and FADD-like apoptosis regulator	sub-optimal isoform coverage due to non-transcribed transcript variants
Cfar	NM_207653.3	AW455485, Abcc7, Cfr, MGD-MRK-1961, MGI:2141688, cyctic fibrosis transmembrane conductance regulator, expressed sequence AW45485	cyctic fibrosis transmembrane conductance regulator	
Cfr	NM_021050.2	AW208766, Brp39, Chl31, Chl1, Gp39, MGD-MRK-36073, MGI:107503, MGI:2138570, chitinase 3-like 1, chitinase like 1, expressed sequence AW208766, glycoprotein 39	chitinase 3-like 1, chitinase-like 1	
Chil1	NM_007695.2	2010012P05Rik, C76846, Chmp4b, MGI:2139458, RIKEN cDNA 2010012P05, gene, Snf7-2, charged multivesicular body protein 4B, chromatin modifying protein 4B, expressed sequence C76846	charged multivesicular body protein 4B	
Chmp4b	NM_029362.3	A1256658, Chuk, Chuk1, IKK-1, IKK-alpha, IKK-1, IKK-alpha, IKK1, IKK(a), IKKalpha, Ikkappa kinase alpha, MGD-MRK-16258, MGI:2147493, conserved helix-loop-helix ubiquitously kinase, expressed sequence A1256658	conserved helix-loop-helix ubiquitously kinase	
Chuk	NM_00162410.1	Ctza, Cita, EG669998, Gm9475, MGD-MRK-37489, MGI:3712178, class II transactivator, predicted gene	class II transactivator	
Cita	NM_007575.2	9475, predicted gene, EG669998	cytoskeleton-associated protein 4	
Ck4p4	NM_175451.1	563040A09Rik, CLM1-63, Cxsa4, P63, RIKEN cDNA 563040A09 gene, cytoskeleton-associated protein 4	collagen, type X, alpha 1	
Col10a1	NM_009925.4	Col10, Col10a-1, Col10a1, MGD-MRK-2051, MGD-MRK-2052, collagen, type X, alpha 1, procollagen type X, alpha 1	collagen, type XIV, alpha 1	
Col14a1	NM_181277.3	5730412L22Rik, AW180078, Col14a1, MGI:1917736, MGI:2146190, RIKEN cDNA 5730412L22 gene, collagen, type XIV, alpha 1, expressed sequence AW180078	collagen, type XVI, alpha 1	
Col16a1	NM_028266.5	270000712Rik, AS30052M23Rik, A1838662, Col16a1, MGI:1919771, MGI:2140369, MGI:2447869, RIKEN cDNA 270000712 gene, RIKEN cDNA AS30052M23 gene, (a1) (XVI) collagen, collagen, type XVI, alpha 1, expressed sequence A1838662	collagen, type I, alpha 1	
Col1a1	NM_007742.3	Col1a-1, Col1a1, Cola-1, Cola1, MGD-MRK-12362, MGD-MRK-12380, MGD-MRK-2059, MGD-MRK-2087, MGD-MRK-2089, Moloney leukemia virus 13, Mov-13, collagen, type I, alpha 1	collagen, type I, alpha 2	
Col1a2	NM_007743.2	AA960264, A1325291, Col1a-2, Col1a2, Col2, Col2, MGD-MRK-13027, MGD-MRK-2060, MGD-MRK-2088, MGD-MRK-2090, MGI:2141171, MGI:2141525, collagen, type I, alpha 2, expressed sequence AA960264, expressed sequence A1325291, ontogenes imperfecta, procollagen type I, alpha 2	collagen, type III, alpha 1	
Col3a1	NM_009930.1	AW550625, Col3a-1, Col3a1, MGD-MRK-15277, MGD-MRK-15278, MGD-MRK-2064, MGD-MRK-2065, MGI:2138608, MGI:98851, Tsk-2, Tsk2, collagen, type III, alpha 1, expressed sequence AW550625, procollagen type III, alpha 1, tight skin 2	collagen, type IV, alpha 1	
Col4a1	NM_009931.2	Brn, Col4a-1, Col4a1, Del8[844H], Del8[844H], MGD-MRK-1671, MGD-MRK-2066, MGD-MRK-2066, MGI:1805310, MGI:1890531, MGI:88206, Raw, Src, alpha1[IV], collagen, brn, col4a1, collagen, type IV, alpha 1, procollagen type IV, alpha 1, retinal anterior wiring, small with vacuolar cataract	collagen, type IV, alpha 2	
Col4a2	NM_009932.3	AU19502, Col4a-2, Col4a2, MGC:7371, MGD-MRK-2067, MGD-MRK-2069, MGI:2142691, collagen, type IV, alpha 2, expressed sequence AU19502, procollagen type IV, alpha 2	collagen, type V, alpha 3	
Col5a1	NM_015734.2	AI413311, Col5a1, MGD-MRK-2071, MGI:2138923, collagen, type V, alpha 1, expressed sequence AI413311	collagen, type V, alpha 3	
Col5a3	NM_016199.2	Col5a3, Pro-alpha3[VI], collagen, type V, alpha 3	collagen, type VI, alpha 3	
Col6a3	XM_897036.2	A1507288, Col6a-3, Col6a3, MGD-MRK-2075, MGD-MRK-2078, MGI:2138284, collagen, type VI, alpha 3, expressed sequence A1507288, procollagen type VI, alpha 3	collagen, type VI, alpha 3	
Col6a5	NM_001167923.3	Col6a5, EG665033, Gm7455, collagen, type VI, alpha 5, predicted gene 7455, predicted gene, EG665033	collagen, type VII, alpha 1	
Cox17a1	NM_007728.1	AW209154, Cox17a1, MGD-MRK-2079, MGI:2143296, collagen, type VII, alpha 1, expressed sequence AW209154	cytochrome c oxidase subunit 4I2	
Cox4i2	NM_053091.2	Cox IV-2, Cox4b, Cox4i2, cytochrome c oxidase subunit 4i2, cytochrome c oxidase, subunit IVb	cytochrome c oxidase subunit 6A1	
Cox6a1	NM_007748.3	Cox6a1, MGD-MRK-23963, Vial, cytochrome c oxidase subunit 6A1, subunit Vial (liver-type)	cytochrome c oxidase subunit 6B1	
Cox6b1	NM_025628.3	2010000G05Rik, Cox6b1, MGD-MRK-35931, MGI:1913792, RIKEN cDNA 2010000G05 gene, cytochrome c oxidase, subunit 6B1	cytochrome c oxidase subunit 7B	
Cox7b	NM_025379.2	111004070Rik, C80563, Cox7b, MGI:2138693, RIKEN cDNA 111004070 gene, cytochrome c oxidase subunit 7B, expressed sequence C80563	cytochrome c oxidase subunit 7C	
Cox7c	NM_007749.3	COXVIIc, Cox7c, Cox7c, MGD-MRK-24097, cytochrome c oxidase subunit 7C	carboxypeptidase A3, mast cell	
Cpa3	NM_007753.2	Cpa3, MCP, CPA, MGD-MRK-2103, carboxypeptidase A3, mast cell, mMC-CPA, mast cell carboxypeptidase A		
Cpb2	NM_019775.3	1110032P04Rik, 4930405E17Rik, A125929, CPR, CPU, cpb2, MGI:1915976, MGI:1923026, MGI:2146567, RIKEN cDNA 1110032P04 gene, RIKEN cDNA 4930405E17 gene, TAF1, carboxypeptidase B2 (plasma), carboxypeptidase R, carboxypeptidase U, expressed sequence A125929, thrombin-activatable fibrinolysis inhibitor	carboxypeptidase B2 (plasma)	
Cpn1	NM_030703.2	061001F20Rik, 50 kDa, Cpn1, MGI:1923506, RIKEN cDNA 061001F20 gene, carboxypeptidase N, polypeptide 1	carboxypeptidase N, polypeptide 1	
Cpt1a	NM_013495.1	CPT1, Cpt1, Cpt1a, CPT 1, MGD-MRK-2118, MGI:2147452, MGI:2147463, carnitine palmitoyltransferase 1, carnitine palmitoyltransferase 1a, liver	carnitine palmitoyltransferase 1a, liver	
Creb1	NM_001037726.1	2310001E10Rik, 3526802021Rik, AV083133, Creb, Creb-1, Creb1, MGD-MRK-2134, MGD-MRK-2135, MGD-MRK-2136, MGI:1913601, MGI:1913993, MGI:2138519, RIKEN cDNA 2310001E10 gene, RIKEN cDNA 3526402H21 gene, cAMP responsive element binding protein 1, cyclic AMP responsive element binding protein, expressed sequence AV083133	cAMP responsive element binding protein 1	
Creb3	NM_013497.3	AU04960, AW338053, C80076, Creb3, L2IP, L2IP-1, L2IP-2, Luman, MGD-MRK-	cAMP responsive element binding protein 3	
Crebbp	NM_001025432.1	16749, MGI:2140486, MGI:2140584, MGI:2148683, cAMP responsive element binding protein 3, expressed sequence AU04960, expressed sequence AW338053, expressed sequence C80076	CREB binding protein	
Crk	NM_133656.4	AW558298, CRB, CRB binding protein, Crebbp, KAT3A, MGI:2146668, expressed sequence AW558298	v-crk avian sarcoma virus CT10 oncogene homolog	
Crkl	NM_007764.4	Crk, Crk-1, Crk-1L, Crk-1L, Crko, MGD-MRK-2151, proto-oncogene c-crk, v-crk avian sarcoma virus CT10 oncogene homolog, v-crk sarcoma virus CT10 oncogene homolog (avian)-like	v-crk avian sarcoma virus CT10 oncogene homolog-like	
Crp	NM_007768.4	1110025F07Rik, AA589403, A1325100, Crk, Crko, MGD-MRK-	C-reactive protein, pentraxin-related	
Csf1r	NM_001037859.1	27045, MGI:1915374, MGI:2146355, MGI:2146414, MGI:5448844, RIKEN cDNA 1110025F07 gene, expressed sequence AA589403, expressed sequence A1325100, snoop, snopy, v-crk avian sarcoma virus CT10 oncogene homolog-like, C-reactive protein, pentraxin-related, Crp, MGD-MRK-2156, MGI:2138184, expressed sequence A1255847	colony stimulating factor 1 receptor	
Csf3r	NM_001256165.1	A1323359, CD115, CSF-3R, Csf3r, Csfmr, Fim-2, Fim2, Fms, Friend MuLV integration site 2, M-CSF, MGD-MRK-2192, MGD-MRK-9798, MGD-MRK-9845, MGI:2147208, MGI:88533, c-fms oncogene, colony stimulating factor 1 receptor, expressed sequence A1323359	colony stimulating factor 3 receptor (granulocyte)	
Csnk1a1	NM_146087.2	Col14, Csf3r, Csfgr, C-SFR, MGD-MRK-2190, MGI:88533, colony stimulating factor 3 receptor (granulocyte), colony stimulating factor, granulocyte receptor	casein kinase 1, alpha 1	
Csnk1d	NM_027874.2	261020814Rik, 4632404G05Rik, 5430427P1Rik, CK1a, Csnk1a1, MGI:1914402, MGI:1915311, MGI:1926085, RIKEN cDNA 261020814 gene, RIKEN cDNA 4632404G05 gene, RIKEN cDNA 5430427P18 gene, casein kinase 1, alpha 1	casein kinase 1, delta	
Csnk1g3	NM_152809.2	120006A05Rik, AA409348, Csnk1d, MGI:1918958, MGI:2143993, RIKEN cDNA 120006A05 gene, casein kinase 1, delta, expressed sequence AA409348	casein kinase 1, epsilon	
Csnk2a1	NM_007788.3	AA426939, A1551861, AA457082, CK1, epsilon, Cki1, epsilon, Ck1epsilon, Csnk1e, KCI, epsilon, MGI:2145998, MGI:2146039, MGI:2146216, casein kinase 1, epsilon, expressed sequence AA426939, expressed sequence A1551861, expressed sequence AA457082, tau	casein kinase 1, gamma 3	
Csnk2b	NM_009975.2	330000207Rik, C330049021Rik, Csnk1g3, MGI:2444154, RIKEN cDNA 330000207 gene, RIKEN cDNA C330049021 gene, casein kinase 1, gamma 3	casein kinase 2, alpha 1 polypeptide	
Ctbp2	NM_00117044.1	CK2, Csnk2a1, Csnk2a1-rs4, MGD-MRK-2201, MGI:894650, casein kinase 2, alpha 1 polypeptide, casein kinase II, alpha 1 related sequence 4, casein kinase 1, alpha 1, related sequence 4	casein kinase 2, beta polypeptide	
Ctnnb1	NM_007614.2	Csnk2b, MGD-MRK-2205, casein kinase 2, beta polypeptide	C-terminal binding protein 2	
Ctnnd1	NM_001085448.1	AA407280, C-terminal binding protein 2, Ctbp2, 2E7d4Tae, DNA segment, Chr 7, ERATO D01 4a5, expressed, Gtarge06, MGI:1098619, MGI:2141805, MGI:894664, Ribeye, expressed sequence AA407280, gene trap ROSA b-geo 6	catenin (cadherin associated protein), beta 1	
Ctsc	NM_009983.2	Bf, Ctnb, Ctnnb1, MGD-MRK-1775, MGI:2656732, batface, beta catenin, beta-catenin, catenin (cadherin associated protein), beta 1, catenin beta	catenin (cadherin associated protein), delta 1	
Ctsl	NM_009984.3	AA409437, AU019353, Ctns, Ctnnd1, MGD-MRK-28063, MGD-MRK-32140, MGI:2138768, MGI:2139175, P120, catenin (cadherin associated protein), delta 1, catenin sr, catenin, delta, expressed sequence AA409437, expressed sequence AU019353, mKIA0384, p120-catenin	cathepsin B	
Ctsw	NM_009985.4	CD, Ctd, MGD-MRK-2245, cathepsin B	cathepsin D	
Cul1	NM_017042.3	CD, Ctd, Ctd, MGD-MRK-2246, cathepsin D	cathepsin L	
Cul3	NM_016716.4	1190035F06Rik, Cat L, Ctd, MEP, MGD-MRK-2248, MGD-MRK-9874, MGI:1338075, MGI:2443888, MGI:95581, RIKEN cDNA 1190035F06 gene, cathepsin L, fs, furless, major excreted protein, nact, nkt	culin 1	
Cxcl10	NM_021274.1	AA67304, AW146203, Cul3, MGI:2138270, MGI:2138569, cullin 3, expressed sequence A1467304, expressed sequence AW146203	chemokine (C-X-C motif) ligand 10	
Cxcl11	NM_019494.1	Cxcl1, Fsp, GRO1 oncogene, Gro1, KC, KC/GRO-alpha, MGD-MRK-12226, MGD-MRK-37105, MGD-MRK-9878, Mgsa, NS1, Scyb1, chemokine (C-X-C motif) ligand 1, fibroblast secretory protein, melanoma growth stimulatory activity	chemokine (C-X-C motif) ligand 11, small inducible cytokine subfamily B (Cys-X-Cys), member 11	
Cxcl12	NM_021704.3	CT, CRG-2, Cxcl10, INP10, IP-10, IP10, H10, MGD-MRK-11217, MGI:96424, Scyb10, chemokine (C-X-C motif) ligand 10, gp10, interferon activated gene 10, mob-1, small inducible cytokine B subfamily (Cys-X-Cys), member 10	chemokine (C-X-C motif) ligand 12	
Cxcl16	NM_023158.6	Cxcl11, H174, I-TAC, IP9, ITAC, SCYB98, Scyb11, B-1, beta1, chemokine (C-X-C motif) ligand 11, small inducible cytokine subfamily B (Cys-X-Cys), member 11	chemokine (C-X-C motif) ligand 16	
Cxcr1	NM_178241.4	A1174028, Cxcl12, MGD-MRK-16620, MGD-MRK-16621, MGD-MRK-24440, MGI:2141381, P85F, P85F/SDF-1, SDF-1, Scyb12, Sdf1, Sdf1b, Tlsf, Tlsf-b, TP4R1, chemokine (C-X-C motif) ligand 12, expressed sequence A1174028, stromal cell derived factor 1, stromal cell derived factor 1A, stromal cell derived factor 1B	chemokine (C-X-C motif) receptor 1, interleukin 8 receptor, alpha	
Cxcr2	NM_009910.2	0910001K24Rik, AV290116, B8024863, Cxcl16, MGI:1913532, MGI:2144468, MGI:2144594, RIKEN cDNA 0910001K24 gene, SR-PSOX, SR-PSOX/CXCL16, Scavenger receptor, chemokine (C-X-C motif) ligand 16, expressed sequence AV290116, expressed sequence B8024863	chemokine (C-X-C motif) receptor 3	
Cxcr3	NM_009911.3	CXCR2, Cxcl12, Cxcl12, MGD-MRK-12243, MGD-MRK-14338, MGI:96991, MGI:98264, MIP-2, MIP-2a, Mgsa-b, Mip2, Scyb, Scyb2, chemokine (C-X-C motif) ligand 2, macrophage inflammatory protein 2, small inducible cytokine B subfamily, small inducible cytokine subfamily, member 2	chemokine (C-X-C motif) receptor 4, fusin	
Cxcr4	NM_009911.3	Cxcr1, Il8ra, chemokine (C-X-C motif) receptor 1, interleukin 8 receptor, alpha	chemokine (C-X-C motif) receptor 6	
Cxcr6	NM_030712.4	CXCR3, Cxcl12, Cxcl12, MGD-MRK-12243, MGD-MRK-14338, MGI:96991, MGI:98264, MIP-2, MIP-2a, Mgsa-b, Mip2, Scyb, Scyb2, chemokine (C-X-C motif) receptor 3, chemokine (C-X-C) receptor 3	chemokine (C-X-C motif) receptor 6	
Cybb	NM_007807.2	CD184, Ctnk1a2, Ctnk1a2, MGD-MRK-39562, MGI:5311025, Mutant line 220, P8-CR, Sdf1r, b2b220C10, chemokine (C-X-C motif) receptor 4, chemokine (C-X-C) receptor 4, fusin	cytochrome b-245, beta polypeptide	
		BB217514, BONZO, Cxcr6, MGI:2143371, STRL33, chemokine (C-X-C motif) receptor 6, expressed sequence BB217514		
		CB8302, Cgd, Cybb, MGD-MRK-1965, MGD-MRK-2263, MGI:2148082, Nox2, cytochrome b-245, beta polypeptide, expressed sequence CB8302, gp91-phox, gp91phox		

Cycs	NM_007808.4	Cycs,MGD-MRK-2287,cytochrome c, somatic	cytochrome c, somatic	
Cyfp1p	NM_001164661.1	Cyfp1p,E03002809RIK,MGI:1352763,MGI:2442012,P1405RA-1,RIKEN cDNA E03002809 gene,Shy-5,5ra-1,cytoplasmic FMR1 interacting protein 1	cytoplasmic FMR1 interacting protein 1	
Cyp1a1	NM_001136059.2	Cyp1a1,MGD-MRK-13109,MGD-MRK-2302,P450-1,cytochrome P450 subfamily 1, polypeptide 1, cytochrome P450, family 1, subfamily a, polypeptide 1	cytochrome P450, family 1, subfamily a, polypeptide 1	
Cyp1a2	NM_009993.3	CP12,Cyp1a2,MGD-MRK-13112,MGD-MRK-2303,P450-3,aromatic compound inducible,cytochrome P450, family 1, subfamily a, polypeptide 2	cytochrome P450, family 1, subfamily a, polypeptide 2	
Cyp27a1	NM_024264.3	1300013A03RIK,Cyp27,Cyp27a1,MGD-MRK-2311,MGI:1922018,RIKEN cDNA 1300013A03 gene,cholesterol 27 hydroxylase,cytochrome P450, 27,cytochrome P450, family 27, subfamily a, polypeptide 1	cytochrome P450, family 27, subfamily a, polypeptide 1	
Cyp2c29	NM_007815.3	AH0H,AH0Hase,A1159681,A1196010,Ah-2,Ah-1,Cyp2c,Cyp2c29,MGD-MRK-1200,MGD-MRK-1220,MGD-MRK-13110,MGD-MRK-2319,MGD-MRK-24113,MGI:2147480,MGI:2147488,P450-2C,aryl hydrocarbon hydroxylase,cytochrome P450, 2c, phenobarbital inducible,cytochrome P450, family 2, subfamily c, polypeptide 29, expressed sequence A1159681, expressed sequence A1196010	cytochrome P450, family 2, subfamily c, polypeptide 29	
Cyp2c65	NM_028191.2	221009K14RIK,Cyp2c65,RIKEN cDNA 221009K14 gene,cytochrome P450, family 2, subfamily c, polypeptide 65	cytochrome P450, family 2, subfamily c, polypeptide 65	
Cyp2e1	NM_021282.2	Cyp2e,Cyp2e1,MGD-MRK-2326,MGD-MRK-2327,cytochrome P450, 2e, ethanol inducible,cytochrome P450, family 2, subfamily e, polypeptide 1	cytochrome P450, family 2, subfamily e, polypeptide 1	
Cyp2f6	NM_010008.4	Cyp2f6,cytochrome P450, family 2, subfamily f, polypeptide 6	cytochrome P450, family 2, subfamily f, polypeptide 6	
Cyp410/31/32	NM_010011.3	Cyp410,D4Rp1,Mip-3,RP1	cytochrome P450, family 4, subfamily a, polypeptide 10/31/32	
Cyp4a12a	NM_17406.3	BC025936,Cyp4a12,Cyp4a12a,MGD-MRK-2335,MGI:3611576,cDNA sequence BC025936,cytochrome P450, family 4, subfamily a, polypeptide 12,cytochrome P450, family 4, subfamily a, polypeptide 12a	cytochrome P450, family 4, subfamily a, polypeptide 12a	Cyp4a12b (NM_172306)
Cyp7a1	NM_007824.2	Cyp7a1,MGD-MRK-33776,cholesterol 7 alpha hydroxylase,cytochrome P450, family 7, subfamily a, polypeptide 1	cytochrome P450, family 7, subfamily a, polypeptide 1	
Cyp8b1	NM_010012.2	Cyp8b1,cytochrome P450, family 8, subfamily b, polypeptide 1,steral 12-alpha hydroxylase	cytochrome P450, family 8, subfamily b, polypeptide 1	
Dapk1	NM_134062.1	2310039H24RIK,2810425C21RIK,A1642003,D13U3A1,DAP-Kinase DNA segment, Chr 13, University of California at Los Angeles 1,Dapk1,MGD-MRK-3671,MGI:1923806,MGI:2145272,MGI:89882,RIKEN cDNA 2310039H24 gene,RIKEN cDNA 2810425C21 gene,death associated protein kinase 1, expressed sequence A1642003	death associated protein kinase 1	
Daxx	NM_007829.3	Daxx,Fas death domain-associated protein	Fas death domain-associated protein	
Ddit3	NM_007837.3	CIEBP homologous protein 10,CHOP-10,CHOP10,DNA-damage inducible transcript 3,Ddit3,MGD-MRK-38292,ehop.gadd153	DNA-damage inducible transcript 3	
Ddr2	NM_022563.2	AW495251,Ddr2,MGD-MRK-19589,MGI:102686,MGI:2138594,Ntrk3,discoiled domain receptor family, member 2, expressed sequence AW495251,neurotrophic tyrosine kinase, receptor related 3	discoiled domain receptor family, member 2	
Depd5c	NM_001025426.2	AV016258,DEP domain containing 5,Depd5c, expressed sequence AV016258	DEP domain containing 5	
Der1	NM_024207.4	111010407RIK,A1195141,AW551338,Der1-like domain family, member 1,Der1,Derlin-1,MGI:2145956,MGI:2146235,RIKEN cDNA 1110021M07 gene,expressed sequence A1195141, expressed sequence AW551338	Der1-like domain family, member 1	
Der2	NM_033562.3	BC005682,CGI-101,Der1-like domain family, member 2,Der2,Derlin-2,F-lana,Flana,MGC:11613,MGI:2136260,cDNA sequence BC005682	Der1-like domain family, member 2	
Diaph1	NM_007858.2	D18Wu154c,DNA segment, Chr 18, Wayne State University 154, expressed,Dia1,Diaph1,Diaph1,DRF1,MGD-MRK-35685,MGI:107220,diaphanous homolog 1 (Drosophila),diaphanous related formin 1,mDia1,p140Mda	diaphanous related formin 1	
Dll1	NM_007865.3	Delta1,Dll1,MGD-MRK-26099,delta like canonical Notch ligand 1	delta like canonical Notch ligand 1	
Dll4	NM_019454.2	Delta4,Dll4,delta like canonical Notch ligand 4	delta like canonical Notch ligand 4	
Dock1	NM_001033420.2	9130060G06RIK,A1854900,Bench to Bassinet Program (B2B/CVDC), mutation 3190Cecilia lo,D630004807RIK,Dock1,Dock1,Doc180,MGI:1918821,MGI:2142074,MGI:2442765,MGI:5618854,Mutant line 3190,RIKEN cDNA 9130060G06 gene,RIKEN cDNA D630004807 gene,b2b1190C6,dedicator of cytokinesis 1, expressed sequence A1854900	dedicator of cytokinesis 1	
Dock2	NM_033374.3	A1662014,AW122239,CED-5,Dock2,Hch,MBC,MGI:2144253,MGI:2144499,dedicator of cyto-kinesis 2, expressed sequence A1662014, expressed sequence AW122239	dedicator of cyto-kinesis 2	
Dusp7	NM_153459.4	AU015694,Dusp7,MGI:2143192,MKP-X,PIST2,dual specificity phosphatase 7, expressed sequence AU015694	dual specificity phosphatase 7	
Dusp8	NM_008748.1	5530400B01RIK,A193498,Dusp8,MGD-MRK-35083,MGI:1918684,MGI:2142006,Nt1p1,RIKEN cDNA 5530400B01 gene,dual specificity phosphatase 8, expressed sequence A193498,neural tyrosine/threonine phosphatase 1	dual specificity phosphatase 8	
Dynll1	NM_019682.4	8kDa LC,DLC,Dnck1,Dynll1,Pin,dynein light chain LC8-type 1,dynein, cytoplasmic, light chain 1	dynein light chain LC8-type 1	
E2f4	NM_148952.1	2010111M04RIK,A1427446,E2F transcription factor 4,E2f4,MGD-MRK-23840,MGI:1951932,MGI:2142532,RIKEN cDNA 2010111M04 gene,expressed sequence A1427446	E2F transcription factor 4	
Eef2k	NM_007908.3	C86191,Eef2k,MGI:2142363,eEF-2k,eukaryotic elongation factor-2 kinase, expressed sequence C86191	eukaryotic elongation factor-2 kinase	
Egfr	NM_207655.2	903002411RIK,A152599,Egfr,ErbB,ErbB1,MGD-MRK-15422,MGD-MRK-15424,MGD-MRK-9322,MGD-MRK-9570,MGI:1890525,MGI:2144221,RIKEN cDNA 9030024115 gene,Was,avian erythroblastic leukemias viral (v-erb-b) oncogene homolog,avian erythroblastosis oncogene B,epidermal growth factor receptor, expressed sequence A152599,wa-2,wa2,waved 2,waved 5	epidermal growth factor receptor	
Egr1	NM_007913.5	A5300451RIK,ETR103,Egr-1,Egr1,Krox-1,Krox-24,Krox24,Kruppel box 1,Kruppel box 24,MGD-MRK-11608,MGD-MRK-11621,MGD-MRK-15902,MGD-MRK-9324,MGD-MRK-9326,MGI:2444717,NGF1-A,NGFI-A,NGFIA,RIKEN cDNA A530045119 gene,TIS8,ZenK,Zfp-6,Zif268,early growth response 1,zinc finger protein 6	early growth response 1	
Ehmt1	NM_001012518.2	9230102N17RIK,Ehmt1,KMT1D,RIKEN cDNA 9230102N17 gene,euchromatic histone methyltransferase 1,mkIAA1876	euchromatic histone methyltransferase 1	
Elin	NM_007925.3	A1385707,A1480567,E030024M20RIK,Elin,MGD-MRK-9357,MGI:2140853,MGI:2140912,MGI:2442008,RIKEN cDNA E030024M20 gene,elastin, expressed sequence A1385707, expressed sequence A1480567, tropoelastin	elastin	
Elov6	NM_130450.2	C77826,ELOV family member 6, elongation of long chain fatty acids (yeast),Elov6,FEN1/Elo2,SURA/Elo3-likc,LC8,MGI:214052,expressed sequence C77826	ELOV family member 6, elongation of long chain fatty acids (yeast)	
Eomes	NM_010136.2	C77258,Eomes,MGI:1313283,MGI:2143384,T-box brain gene 2,Tbr2,esomesoderin, expressed sequence C77258	esomesoderin	
Ep300	NM_177821.6	E1A binding protein p300,Ep300,KAT3B,p300	E1A binding protein p300	
Ep400	NM_029337.2	170002009RIK,AU023439,E1A binding protein p400,Ep400,MGI:1922810,MGI:2141071,RIKEN cDNA 170002009 gene, expressed sequence AU023439,mDomino,mkIAA1498,a400	E1A binding protein p400	
Epas1	NM_010137.3	EPA013_HIF-2alpha,HIF2A,Epas1,HIF-2alpha,RIKEN cDNA 36223,MOP2,BHLHe73,endothelial PAS domain protein 1,hypoxia inducible transcription factor 2alpha	endothelial PAS domain protein 1	
Eph2	NM_007940.3	AW106936,Eph2,Eph2,MGD-MRK-16276,MGI:2145794,epoxide hydrolase 2, cytoplasmic,epoxide hydrolase 2, soluble, expressed sequence AW106936,eH,sEP	epoxide hydrolase 2, cytoplasmic	
Erc1	NM_053204.2	5033405M01RIK,9630025C19RIK,B43010716RIK,ELKS/RAB6-interacting/CAST family member 1,Elks1,Erc1,MGI:1925313,MGI:2442804,MGI:2443270,RAB6IP2A,RAB6IP2B,RIKEN cDNA 5033405M01 gene,RIKEN cDNA 9630025C19 gene,RIKEN cDNA B43010716 gene,Rab6 interacting protein 2,Rab6ip2,mkIAA1081	ELKS/RAB6-interacting/CAST family member 1	
Ern1	NM_023913.2	903041481RIK,A125830,C85377,Ern1,Ire1a,Ire1alpha,Ire1p,MGI:1918791,MGI:2144086,MGI:2144679,RIKEN cDNA 9030414818 gene,endorplasmic reticulum (ER) to nucleus signalling 1, expressed sequence A125830, expressed sequence C85377,inositol-requiring 1 alpha (yeast)	endorplasmic reticulum (ER) to nucleus signalling 1	
Erp10	NM_015774.2	ERD1-like (S. cerevisiae),Erp10	ERD1-like (S. cerevisiae)	
Erp29	NM_026129.2	1200015M03RIK,2810446M09RIK,AW209030,Erp29,Erp29,Erp31,MGI:1920007,MGI:2141173,PD-Dd,RIKEN cDNA 1200015M03 gene,RIKEN cDNA 2810446M09 gene,endorplasmic reticulum protein 29, expressed sequence AW209030	endorplasmic reticulum protein 29	
F11r	NM_172647.2	A4638916,BV11 antigen,EST A4638916,ESTM33,F11 receptor,F11r,JAM-1,JAM-A,icam1,l1y08RIK,A1334465,expressed sequence tag mouse EST 33,junction cell adhesion molecule,junction cell adhesion molecule 1	F11 receptor	
F5	NM_007976.2	A1173222,Cf5,Cf5,F5,MGD-MRK-1948,MGD-MRK-1954,MGI:2138166,coagulation factor V, expressed sequence A1173222	coagulation factor V	
F8	NM_001161374.1	Cf8,Cf8,FVIII,Factor VIII,MGD-MRK-1949,MGD-MRK-1955,coagulation factor VIII	coagulation factor VIII	
Fabp4	NM_024406.2	422/AP2,ALBP/AP2,Ap2,Fabp4,lbp1,MGD-MRK-1345,MGD-MRK-36068,MGI:107500,adipocyte protein	fatty acid binding protein 4, adipocyte	
Fabp5	NM_010634.3	Fabp5,Fabp5,FABP5,MGD-MRK-18598,Unknown KRo,keratinocyte lipid binding protein,fatty acid binding protein 5, epidermal,keratinocyte lipid binding protein,mal1	fatty acid binding protein 5, epidermal	
Fadd	NM_010175.5	Fadd,Fas (TNFRSF6)-associated with death domain,MGD-MRK-38369,Mort1/FADD	Fas (TNFRSF6)-associated with death domain	
Fap	NM_007986.2	Fap,MGD-MRK-39607,fibroblast activation protein	fibroblast activation protein	
Fas	NM_007987.2	A1196731,APO-1,CD95,Fas,Fas (TNF receptor superfamily member 6),MGD-MRK-11878,MGD-MRK-9711,MGI:2147489,TNF receptor superfamily member 6,TNFR6,Tnfrsf6, expressed sequence A1196731,lr,lymphoproliferation	Fas (TNF receptor superfamily member 6)	
Fasn	NM_007988.3	A630082H08RIK,FAS,Fasn,MGD-MRK-9712,MGI:2443287,RIKEN cDNA A630082H08 gene,fatty acid synthase	fatty acid synthase	
Fbp1	NM_019395.2	FBPase brain isoform,FBPase liver,_Fbp-2,Fbp1,Fbp3,MGD-MRK-9720,MGD-MRK-9722,MGI:1330236,fructose biphosphatase 1	fructose biphosphatase 1	
Fcer1a	NM_010184.1	Fc epsilon high affinity receptor alpha,Fc receptor, IgE, high affinity I, alpha polypeptide,FcER1,Fcepsilon1,Fcepsilon1,Fc epsilon-5,MGD-MRK-9724,MGD-MRK-9728,MGD-MRK-9741	Fc receptor, IgE, high affinity I, alpha polypeptide	
Fcer1g	NM_010185.4	A1573736,Fc epsilon high affinity receptor gamma,Fc receptor, IgE, high affinity I, gamma polypeptide,FcR-gamma,FcR[g],Fdgamma,FcE1g,Fc epsilonII,Rfcer1g,Ly-50,MGD-MRK-11993,MGD-MRK-9726,MGD-MRK-9730,MGI:2138290,expressed sequence A1573736,lymphocyte antigen 50	Fc receptor, IgE, high affinity I, gamma polypeptide	
Fcgr4	NM_144559.1	483438422RIK,CD16c-2,Fc Fragment binding (IgG, IgE, IgM affinity) receptor,Fc receptor, IgG, low affinity IV	Fc receptor, IgG, low affinity IV	
Fcrlb	NM_001029984.2	IFR2,FCRL2,Fc receptor related V, Fc receptor-like B,FCRL2,FCRLb,Fcrlm,FCRL2	Fc receptor-like B	
Fga	NM_010196.3	A1303526,ENSMUSG00000059807,Fga,Fib,MGI:2139659,MGI:3642492, expressed sequence A1303526, fibrinogen alpha chain, predicted gene, ENSMUSG00000059807	fibrinogen alpha chain	
Fgb	NM_181849.2	2510049G14RIK,Fgb,MGD-MRK-16277,MGI:1915158,RIKEN cDNA 2510049G14 gene,fibrinogen beta chain	fibrinogen beta chain	
Fgd2	NM_001159538.1	FYVE, RhoGEF and PH domain containing 2,Fgd2,MGD-MRK-14738,MGD-MRK-14743,MGD-MRK-14932,MGD-MRK-14935,MGI:98500,Tcd-2,Tcd2,1-complex distorter 2,1-complex sterility 2,tcs-2,tcs2	FYVE, RhoGEF and PH domain containing 2	
Fgf15	NM_008003.2	FGF19,Fgf15, fibroblast growth factor 15	fibroblast growth factor 15	
Fgf2	NM_008006.2	Fgf-2,Fgf2,Fgfb,MGD-MRK-9761,MGD-MRK-9767,MGD-MRK-9774,bFGF, fibroblast growth factor 2, fibroblast growth factor, basic	fibroblast growth factor 2	
Fgf21	NM_020013.4	Fgf21, fibroblast growth factor 21	fibroblast growth factor 21	
Fgg	NM_133862.1	3010002H13RIK,A1256424,Fgg,MGD-MRK-9786,MGI:1924212,MGI:2139652,RIKEN cDNA 3010002H13 gene, expressed sequence A1256424, fibrinogen gamma chain,gamma-fibrinogen	fibrinogen gamma chain	
Fgl1	NM_008013.2	A1385601,Fgl2,MGD-MRK-24145,MGI:2140850, expressed sequence A1385601, fibrinogen-like protein 2	fibrinogen-like protein 2	
Fg2	NM_008026.4	EWRS2,Fil-1,Fil1,Friend leukemia integration 1,MGD-MRK-9824,MGD-MRK-9825,SIC-1,SIC1	Friend leukemia integration 1	
Flnb	NM_134080.1	AL024016,Flnb,MGI:2145716, expressed sequence AL024016,filamin, beta	filamin, beta	

Flt1	NM_010228.3	A1323757,FMS-like tyrosine kinase 1,Flt-1,Flt1,MGD-MRK-9832,MGD-MRK-9836,MGI:2140833,VEGFR-1,VEGFR1,expressed sequence A1323757,flt1,vascular endothelial growth factor receptor-1	FMS-like tyrosine kinase 1
Frt4	NM_008029.3	A1323512,Chy,FMS-like tyrosine kinase 4,Frt-4,Frt4,MGD-MRK-1984,MGD-MRK-9835,MGD-MRK-9839,MGI:2141119,MGD-MRK-8840,VEGFR-3,VEGFR3,Chy,expressed sequence A1323512	FMS-like tyrosine kinase 4
Frt1	NM_010233.1	Fn,Frt1,Frt1,MGD-MRK-9847,MGD-MRK-9848,fibronectin 1	fibronectin 1
Frip2	NM_001162999.2	D630023812Rik,Frip2,RIKEN cDNA D630023812 gene,follucilin interacting protein 2,mkIAA1450	follucilin interacting protein 2
Foxp3	NM_054039.2	Foxp3,JM2,MGD-MRK-14368,MGI:98281,forkhead box P3,scurlin,scurlfy,slf	forkhead box P3
Fpr1	NM_013521.2	FPR,Fpr 1,MGD-MRK-35914,PLMf-R,formyl peptide receptor 1	formyl peptide receptor 1
Frs2	NM_177798.3	C330018A15Rik,Frs2,Frs2,Alphapla,RIKEN cDNA C330018A15 gene,SN11, fibroblast growth factor receptor substrate 2	fibroblast growth factor receptor substrate 2
Fst	NM_008046.1	Fst,MGD-MRK-9880,follistatin	follistatin
Furin	NM_011046.2	913040401Rik,Fur,Furin,MGD-MRK-13193,MGD-MRK-9893,MGI:1925399,PACE,Pc3k3,RIKEN cDNA 913040401 gene,SPC1,furin,furin (paired basic amino acid cleaving enzyme),proprotein convertase subtilisin/kexin type 3	furin (paired basic amino acid cleaving enzyme)
Fzd2	NM_020510.2	AW456835,Fzd10,MGI:2144531,Mfz10a,expressed sequence AW456835,frizzled class receptor 2	frizzled class receptor 2
Fzd5	NM_001042659.1	5330434N09Rik,AI427138,Fz5,Fz5,MGD-MRK-37615,MGI:1925523,MGI:2138230,RIKEN cDNA 5330434N09 gene,expressed sequence AI427138,frizzled class receptor 5	frizzled class receptor 5
Gab1	NM_001301298.1	AA408973,AW107238,Gab1,MGD-MRK-37125,MGI:2142409,MGI:2142758,expressed sequence AA408973,expressed sequence AW107238, growth factor receptor bound protein 2-associated protein 1	growth factor receptor bound protein 2-associated protein 1
Gas1	NM_008086.1	AW554192,Gas1,Gas1,MGD-MRK-9985,MGD-MRK-9992,MGI:2145453,expressed sequence AW554192,growth arrest specific 1	growth arrest specific 1
Gata3	NM_008091.3	GATA binding protein 3,Gata-3,Gata3,MGD-MRK-10000,MGD-MRK-10004,MGI:2181648,ja1,juvenile alopecia	GATA binding protein 3
Gbp3	NM_018734.3	AW228055,Gbp3,MGI:1912979,expressed sequence AW228055,guanylate binding protein 3	guanylate binding protein 3
Gbp5	NM_153564.2	533040906Rik,Gbp5,Gbp5a,MGI:2444553,RIKEN cDNA 533040906 gene,guanylate binding protein 5	guanylate binding protein 5
Gcmt1	NM_173442.3	5630400021Rik,G2(GlcNAc)T,Gcmt1,Gcmt1,MGD-MRK-10022,MGI:1918694,RIKEN cDNA 5630400021 gene,beta-1,6-N-acetylglucosaminyltransferase,glucosaminyl(N-acetyl) transferase 1, core 2	glucosaminyl(N-acetyl) transferase 1, core 2
GLI1	NM_010296.2	AV235269,GlI-Kruppel family member GLI1,GlI1,MGD-MRK-10105,MGD-MRK-15893,MGD-MRK-15948,MGI:2143787,MGI:99196,Zfp-5,Zfp5,expressed sequence AV235269,zinc finger protein 5	GLI-Kruppel family member GLI1
GLI2	NM_001081125.1	AW546128,GlI-Kruppel family member GLI2,GlI2,MGD-MRK-10106,MGI:2138602,expressed sequence AW546128	GLI-Kruppel family member GLI2
GLI3	NM_008130.2	A1854843,AU023367,Bph,GlI-Kruppel family member GLI3,GlI3,MGD-MRK-10107,MGD-MRK-1107,MGD-MRK-13222,MGD-MRK-15835,MGD-MRK-1615,MGI:2145311,MGI:2145364,Pdn,xt,ad,anterior digit pattern deformity,brachyphalangy,expressed sequence A1854843,expressed sequence AU023367,extra toes,polydactyly Nagoya	GLI-Kruppel family member GLI3
Glpr1r	NM_021332.2	GLP-1R,Glpr1r,Glpr1r,MGD-MRK-16352,glucagon-like peptide 1 receptor	glucagon-like peptide 1 receptor
Gnb4	NM_013531.4	6720453A21Rik,Gnb4,MGD-MRK-26015,MGI:1925135,RIKEN cDNA 6720453A21 gene,guanine nucleotide binding protein (G protein), beta 4	guanine nucleotide binding protein (G protein), beta 4
Gng2	NM_010215.4	111000391Rik,Gng2,MGD-MRK-19609,MGI:1923542,RIKEN cDNA 111000391 gene,guanine nucleotide binding protein (G protein), gamma 2	guanine nucleotide binding protein (G protein), gamma 2
Gnptab	NM_001004164.2	EG432486,Gnptab,N-acetylglucosamine-1-phosphatase, alpha and beta subunits,predicted gene,EG432486	N-acetylglucosamine-1-phosphatase, alpha and beta subunits
Got2	NM_010325.2	AL022787,FABP-pm,Got2,Got2,Kyat4,MGD-MRK-10214,MGD-MRK-10216,MGI:2142656,expressed sequence AL022787,glutamic-oxaloacetic transaminase 2, mitochondrial,mAspAT,mitochondrial aspartate aminotransferase,plasma membrane fatty acid binding protein	glutamic-oxaloacetic transaminase 2, mitochondrial
Gpc4	NM_008150.2	9530073D23Rik,AF311610,A1835680,A1661372,Gpc4,K-glypican,MGD-MRK-29056,MGI:1925872,MGI:2147881,MGI:2147905,MGI:2152785,RIKEN cDNA 9530073D23 gene,expressed sequence AF311610,expressed sequence A1835680,expressed sequence A1661372,glypican 4	glypican 4
Gpr65	NM_008152.2	Dig1,G-protein coupled receptor 25,G-protein coupled receptor 65,Gpr65,Gpr65,MGD-MRK-37067,TDAG8	G-protein coupled receptor 65
Gpx2	NM_010677.2	GI-GPx,Gpx-GI,Gpx2,MGD-MRK-35066,glutathione peroxidase 2,intestinal GPx	glutathione peroxidase 2
Gpx3	NM_008161.2	AA960521,EGPx,Gpx3,MGD-MRK-32142,MGI:2144058,expressed sequence AA960521,extracellular GPx,glutathione peroxidase 3,plasma GPx	glutathione peroxidase 3
Grb10	NM_010345.4	5730571D09Rik,AI325020,Grb10,MGD-MRK-24105,MGI:1915227,MGI:2144128,Meg1,RIKEN cDNA 5730571D09 gene,expressed sequence AI325020,growth factor receptor bound protein 10,mkIAA0207, maternally expressed gene 1	growth factor receptor bound protein 10
Grem1	NM_011824.4	Ctksf1b1,Drn,Grem,Grem1,MGI:1344362,cysteine knot superfamily 1, BMP antagonist 1,down-regulated in v-mos-transformed cells,grem1in,grem1in 1, DAN family BMP antagonist,ld,limb deformity	grem1in 1, DAN family BMP antagonist
Gsk3b	NM_019827.3	7330414F15Rik,8430431H08Rik,C86142,GSK-3,GSK-3beta,GSK-3,Gsk3b,MGI:1914056,MGI:1923394,MGI:2146721,RIKEN cDNA 7330414F15 gene,RIKEN cDNA 8430431H08 gene,expressed sequence C86142,glycogen synthase kinase 3 beta	glycogen synthase kinase 3 beta
Gzma	NM_010370.2	AW494111,BL_esterase,Ctla-3,Ctla3,Gzma,H factor,Hanukah factor,HF,MGD-MRK-10699,MGD-MRK-2223,MGD-MRK-2233,MGD-MRK-38311,MGI:2145434,SE1,TSP-1,TSP1,cytotoxic T lymphocyte-associated protein 3,expressed sequence AW494111,granzyme A,serine esterase 1	granzyme A
Gzmb	NM_013542.2	A1533453,CCP-1,C11,CCP1,Ctla-1,Ctla1,GzB,Gzmb,MGD-MRK-2219,MGD-MRK-2219,MGD-MRK-38312,MGI:2145670, cytotoxic T lymphocyte-associated protein 1, expressed sequence A1533453,granzyme B	granzyme B
Gzmd	NM_010372.2	CCPS,Ctla-5,Ctla5,Gzmd,MGD-MRK-2235,MGD-MRK-38300,cytotoxic T lymphocyte-associated protein 5,granzyme D	granzyme D
Gzme	NM_010373.3	CCP3,Ctla-6,Ctla6,Gzme,MCSF-2,MGD-MRK-2226,MGD-MRK-2236,MGD-MRK-38310,cytotoxic T lymphocyte-associated protein 6,granzyme E	granzyme E
H2-A1	NM_010378.2	A alpha,Alpha,H-2Ab,H2-A1,region-associated antigen 1,A-alpha,Ja-1,Ia1,MGD-MRK-10377,MGD-MRK-10490,MGD-MRK-11044,MGD-MRK-11049,histocompatibility 2, class II antigen A alpha,histocompatibility 2, class II antigen A, alpha	histocompatibility 2, class II antigen A, alpha
H2-Ab1	NM_207105.2	A beta,A1845868,Abeta,H-2Ab,H2-Ab1,Ab-1,A-cb-1,A-beta-1,region-associated antigen 2,IaB,Ja-2,Ia2,MGD-MRK-10378,MGD-MRK-10491,MGD-MRK-11045,MGD-MRK-11050,MGD-MRK-23932,MGI:1890956,MGI:2146934,Rmc1,expressed sequence A1845868,histocompatibility 2, class II antigen A, beta,histocompatibility 2, class II antigen A, beta 1, response to metabolic cancers 1	histocompatibility 2, class II antigen A, beta 1
H2-D1	NM_010380.3	H-2D,H2-D1,MGD-MRK-10379,MGD-MRK-10492,histocompatibility 2, D region locus 1	histocompatibility 2, D region locus 1
H2-DMA	NM_010386.3	H-2Ma,H2-DMa,H-2M alpha,H2-Ma,MGD-MRK-10405,MGD-MRK-10517,histocompatibility 2, class II, locus DMA,histocompatibility 2, class II, locus Ma	histocompatibility 2, class II, locus DMA
H2-DMb1	NM_010387.3	A1835589,H-2Mb1,H2-DMb1,H2-M beta1,H2-Mb1,MGD-MRK-10406,MGD-MRK-10518,MGI:2146833,expressed sequence A1835589,histocompatibility 2, class II, locus Mb1	histocompatibility 2, class II, locus Mb1
H2-DMb2	NM_010388.4	H-2Mb2,H2-DMb2,H2-M beta2,H2-Mb2,MGD-MRK-10407,MGD-MRK-10519,histocompatibility 2, class II, locus Mb2	histocompatibility 2, class II, locus Mb2
H2-E1	NM_010382.2	H-2E,H2-Eb1,I region-associated antigen 4,Ia-4,Ia4,MGD-MRK-10384,MGD-MRK-10497,MGD-MRK-11047,MGD-MRK-11052,histocompatibility 2, class II antigen E beta	histocompatibility 2, class II antigen E beta
H2-K1	NM_001001892.2	H-2K,H2-K1,MGD-MRK-10388,MGD-MRK-10500,histocompatibility 2, K1, K region	histocompatibility 2, K1, K region
H2-M3	NM_013819.2	H-2M3,H2-M3,Hm,MGD-MRK-10400,MGD-MRK-10511,MGD-MRK-10801,R482,histocompatibility 2, M region locus 3	histocompatibility 2, M region locus 3
H2-Ob	NM_010389.3	A-beta-2,A-beta-2i,H-2i,H2-Ob,H2-Ab2,H2-IAB2,H2-Ob,MGD-MRK-10378,MGD-MRK-10409,MGD-MRK-10491,MGD-MRK-10521,MGD-MRK-23933,MGI:3573871,Ob,histocompatibility 2, O region beta locus,histocompatibility 2, class II antigen A, beta,histocompatibility 2, class II antigen A beta 2,vic1,virus infectivity controller 1	histocompatibility 2, O region beta locus
H2-Pa	ENSMUST0000182003.1	H2-Pa,MGD-MRK-32355,histocompatibility 2, P region alpha locus	histocompatibility 2, P region alpha locus
H2-Q1	NM_010390.3	15006,H-2Q1,H2-Q1,MGD-MRK-10412,MGD-MRK-10524,MGD-MRK-13708,MGD-MRK-13718,MGD-MRK-13736,MGI:3779428,Q1,Q1b,Q1d,Q1k,histocompatibility 2, Q region locus 1,predicted gene, 15006	histocompatibility 2, Q region locus 1
H2-Q10	NM_010391.4	H-2Q10,H2-Q10,MGD-MRK-10413,MGD-MRK-10525,MGD-MRK-13707,MGD-MRK-13719,Q region locus 10,Q10,Q1a,lymphocyte antigen 10,Qa10,histocompatibility 2, Q region locus 10	histocompatibility 2, Q region locus 10
H2-Q2	NM_010392.2	BE136769,ENSMUG0000079507,Gem11332,H-2Q2,H2-Q2,MGD-MRK-10414,MGD-MRK-10527,MGI:3035350,MGI:3779387,expressed sequence BE136769,histocompatibility 2, Q region locus 2,predicted gene 11132,predicted gene, ENSMUG0000079507	histocompatibility 2, Q region locus 2
H2-T23	NM_010398.3	37b,37c,H-2T23,H2-T23,MGD-MRK-10439,MGD-MRK-10553,Qa-1,Qa1,Qed-1,T18c,T18c17,T23b,T23d,histocompatibility 2, T region locus 23	histocompatibility 2, T region locus 23
Hadh	NM_008212.3	AA409008,AU019341,AW742502,Hadh,Hadhc,c-3-hydroxyacyl-Coenzyme A dehydrogenase, short chain,MGD-MRK-10609,MGI:2139565,MGI:2139879,MGI:2140013,Schad,expressed sequence AA409008,expressed sequence AU019341,expressed sequence AW742502,hydroxyacyl-Coenzyme A dehydrogenase,hydroxyacyl-Coenzyme A dehydrogenase,hydroxyacyl-Coenzyme A dehydrogenase-dehydrogenase	hydroxyacyl-Coenzyme A dehydrogenase
Hadha	NM_178878.2	C77020,Hadha,MGI:2141283,Mtpa,expressed sequence C77020,hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Coenzyme A thiolase/enoyl-Coenzyme A hydratase (trifunctional protein), alpha subunit
Havr1	NM_134248.2	A1503787,Havr1,KIM-1,MGI:2144204,T cell immunoglobulin and mucin domain containing 1,TIM-1,Tim1,Timd1,expressed sequence A1503787,hepatitis A virus cellular receptor 1	hepatitis A virus cellular receptor 1
Hc	NM_010406.1	C5,C5a,Hc,He,Hfb2,MGD-MRK-10645,MGD-MRK-10689,MGD-MRK-1703,MGI:2181187,hemolytic complement,hepatic fibrogenesis 2	hemolytic complement
Hcar2	NM_030701.1	G protein-coupled receptor 109A,G protein-coupled receptor 109B,Gpr109a,Gpr109b,HM74,Hcar2,Niacr1,PUMA-G,Pumag,hydroxy-carboxylic acid receptor 2,interferon-gamma inducible gene, Puma-g,niacin receptor 1	hydroxy-carboxylic acid receptor 2
Hcfc1	NM_008224.3	AW060991,HCF-1,HCF1,Hcfc1,MGD-MRK-33621,MGI:2147992,VP16 accessory protein,expressed sequence AW060991,host cell factor C1	host cell factor C1
Hck	NM_010407.3	A1849071,B-cell myeloid kinase,Bmk,Hck,Hck-1,MGD-MRK-10666,MGD-MRK-10667,MGD-MRK-1590,MGI:2139076,expressed sequence A1849071,hemopoietic cell kinase,hemopoietic cell kinase 1	hemopoietic cell kinase
Hdac4	NM_207225.1	4932408F19Rik,A1047285,Hdac4,MGI:3034516,RIKEN cDNA 4932408F19 gene,expressed sequence A1047285,histone deacetylase 4	histone deacetylase 4
Hdc	NM_008230.4	AW108189,Hdc,Hdc-a,Hdc-c,Hdc-e,Hdc-s,L-histidine decarboxylase,MGD-MRK-10682,MGD-MRK-10683,MGD-MRK-10684,MGD-MRK-10685,MGD-MRK-10686,MGI:2139302,MGI:96063,MGI:96064,MGI:96065,MGI:96066,expressed sequence AW108189,histidine decarboxylase,histidine decarboxylase concentration (kidney),histidine decarboxylase	histidine decarboxylase
Hdifa	NM_010431.2	AA959795,HIF-1alpha,HIF1alpha,Hdifa,MGD-MRK-35379,MGI:2144750,MOP1,bHLHe78,expressed sequence AA959795,hypoxia inducible factor 1, alpha subunit	hypoxia inducible factor 1, alpha subunit

Hif3a	NM_001162950.1	Hif3a,MOP7,Nepas,bHLHe17,hypoxia inducible factor 3, alpha subunit 0610007P06Rik,1110002N09Rik,HikesHj,MGD-MRK-11694,MGD-MRK-11726,MGI:1913365,MGI:1914919,RIKEN cDNA 0610007P06 gene,heat shock protein nuclear import factor	hypoxia inducible factor 3, alpha subunit
HikesHj	NM_026304.3	0610007P06Rik,1110002N09Rik,HikesHj,MGD-MRK-11694,MGD-MRK-11726,MGI:1913365,MGI:1914919,RIKEN cDNA 0610007P06 gene,heat shock protein nuclear import factor	heat shock protein nuclear import factor
Hkdcl	NM_145419.1	BC016235.Hkdcl.MGC:28816.cDNA sequence BC016235.hexokinase domain containing 1	hexokinase domain containing 1
Hmgcs2	NM_008256.4	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2,Hmgcs2,MGD-MRK-18773,mHS DBWsu38e,DNA segment, Chr 8, Wayne State University 38, expressed,HO-1,HOI,Hmox,Hmox1,Hsp32,MGD-MRK-10800,MGD-MRK-34114,MGD-MRK-38247,MGI:106420,MGI:109203,heme oxygenase	3-hydroxy-3-methylglutaryl-Coenzyme A synthase 2
Hmox1	NM_010442.2	1,hemoxigenase 0610007A03Rik,AA08769.Hsbp1,MGI:2142405,RIKEN cDNA 0610007A03 gene,expressed sequence	heme oxygenase 1
Hsbp1	NM_024219.1	AA08769,heat shock factor binding protein 1 11beta-HSD-1,11beta-hydroxysteroid dehydrogenase type 1,Hsd11b1,MGD-MRK-24447,hydroxysteroid 11-beta dehydrogenase 1	heat shock factor binding protein 1
Hsd11b1	NM_008288.2	17[b]-HSD-AW208803,D-bifunctional protein,Hsd17b4,MFE-2,MFP2,MGD-MRK-32129,MGI:2147354,Mfp-2,expressed sequence AW208803,hydroxysteroid (17-beta) dehydrogenase 4,multifunctional protein	hydroxysteroid 11-beta dehydrogenase 1
Hsd17b4	NM_008292.4	2,perMFE-2 AL024080,AL024147,Hsp86,1,Hsp89,Hsp90,Hsp90a1,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 90, alpha (cytosolic), class A member 1,heat shock protein, 1,heat shock protein, 90 kDa,hsp4	hydroxysteroid (17-beta) dehydrogenase 4
Hsp90aa1	NM_010480.5	A822976,C81438,Hsp84,Hsp84-3,Hsp90,Hsp90a1,Hspca,MGD-MRK-10963,MGD-MRK-10974,MGI:2146951,MGI:2147140,expressed sequence AL022974,expressed sequence C81438,heat shock protein 1, beta,heat shock protein 90 alpha (cytosolic), class B member 1,heat shock protein, 84 kDa 1,heat shock protein 90 kDa	heat shock protein 90, alpha (cytosolic), class A member 1
Hsp90ab1	NM_008302.3	A822976,C81438,Hsp84,Hsp84-3,Hsp90,Hsp90a1,Hspca,MGD-MRK-10963,MGD-MRK-10974,MGI:2146951,MGI:2147140,expressed sequence AL022974,expressed sequence C81438,heat shock protein 1, beta,heat shock protein 90 alpha (cytosolic), class B member 1,heat shock protein, 84 kDa 1,heat shock protein 90 kDa	heat shock protein 90 alpha (cytosolic), class B member 1
Hspg2	NM_008305.3	A852300,Hspg2,MGD-MRK-10976,MGD-MRK-13349,MGI:2140391,Ftn,Plc,expressed sequence A852300,perlecan,perlecan (heparan sulfate proteoglycan 2),perlecan (heparan sulfate proteoglycan)	perlecan (heparan sulfate proteoglycan 2)
Htra2	NM_019752.3	AI481710,Htra2,serine peptidase 2,Htra2,Htra2,MGD-MRK-12335,MGI:2141430,MGI:97039,OMI,Prss25,expressed sequence AI481710,mdm2,motor neuron degeneration 2,protease, serine, 25	Htra2 serine peptidase 2
Hvcn1	NM_001042489.1	0610039P13Rik,AA50555.BTS,Hvcn1,MGI:2140895,RIKEN cDNA 0610039P13 gene,expressed sequence AI450555,hydrogen voltage-gated channel 1,envSCP	hydrogen voltage-gated channel 1
Icam1	NM_010493.2	CD54,Icam-1,Icam1.Ly-47,MAIA-2,MGC:6195,MGD-MRK-11146,MGD-MRK-11148,MGD-MRK-11989,intercellular adhesion molecule 1,lymphocyte antigen 47	intercellular adhesion molecule 1
Icos	NM_017480.1	Icos,inducible T cell co-stimulator 111001302Rik,2900026P10Rik,D12Ertd647e.DNA segment, Chr 12, ERATO Doi 647, expressed,cD7_Hf27H,MGI:1915877,MGI:1925649,RIKEN cDNA 111001302 gene,RIKEN cDNA 2900026P10 gene,interferon, alpha-inducible protein 27,interferon, alpha-inducible protein 27 like 1	inducible T cell co-stimulator
Ifi27	NM_026790.2	2010008K16Rik,AW986054,IFP35,IF35,MGI:2144592,RIKEN cDNA 2010008K16 gene,expressed sequence AW986054,interferon-induced protein 35	interferon, alpha-inducible protein 27
Ifi35	NM_027320.4	IFN-gamma,Ifi35,MGD-MRK-11214,MGD-MRK-36233,interferon gamma	interferon-induced protein 35
Ifng	NM_008337.1	CD119,IFN-gamma R,IFN-gammaR,Hgr,Ifngr,Ifngr1,MGD-MRK-36230,Ntkar,interferon gamma receptor 1	interferon gamma
Ifngr1	NM_010511.2	C73001P09Rik,Igf-1,Igf1,Igf1,MGD-MRK-11226,MGD-MRK-11228,MGI:2444166,RIKEN cDNA C73001P09 gene,insulin-like growth factor 1	interferon gamma receptor 1
Igf1	NM_00111274.1	A330103N21Rik,CD221,Igf-1R,Igf1r,MGD-MRK-11229,MGI:1925023,MGI:3576016,RIKEN cDNA A330103N21 gene,hydrops fetalis,hyf,insulin-like growth factor 1 receptor, line 186	insulin-like growth factor 1
Igf1r	NM_010513.2	Ih,Indian hedgehog,MGD-MRK-11343	insulin-like growth factor 1 receptor
Ihh	NM_010544.2	Ih,Indian hedgehog,MGD-MRK-11343	Indian hedgehog
Ikbkb	NM_010546.2	IL13I12,IKK-2,IKK-beta,IKK2,IKK[b],IKKbeta,Ikbkb,MGI:2142466,expressed sequence AI132552,inhibitor of kappaB kinase beta	inhibitor of kappaB kinase beta
Il10	NM_010548.1	IL-10,IL-10,IL10,MGD-MRK-11347,MGD-MRK-11361,cytokine synthesis inhibitory factor,interleukin 10 AW553859,Cdw210,IL10ra,IL10ra,MGD-MRK-11362,MGI:2143329,expressed sequence AW553859,interleukin 10 receptor,interleukin 10 receptor, alpha,mil-10R	interleukin 10
Il10ra	NM_003848.2	IL-11,IL11,MGD-MRK-3537,interleukin 11 A9300217Rik,IL-12RB2,Hfm1,IL12rb2,MGI:1924481,RIKEN cDNA A9300217 gene,interleukin response to microorganisms,interleukin 12 receptor, beta 2	interleukin 10 receptor, alpha
Il12rb2	NM_008354.3	IL-13,IL13,MGD-MRK-11350,MGD-MRK-11365,interleukin 13 Ctia-8,Ctia8,IL-17A,IL17,IL17a,MGD-MRK-2228,MGD-MRK-2238,MGD-MRK-35831,cytotoxic T lymphocyte-associated protein 8,interleukin 17,interleukin 17A	interleukin 11
Il13	NM_008355.2	Ctia-8,Ctia8,IL-17A,IL17,IL17a,MGD-MRK-2228,MGD-MRK-2238,MGD-MRK-35831,cytotoxic T lymphocyte-associated protein 8,interleukin 17,interleukin 17A	interleukin 12 receptor, beta 2
Il17a	NM_010552.3	IL18R1,IL18R1,IL18rp,MGD-MRK-33052,interleukin 1 receptor related protein,interleukin 18 receptor 1 IL-18,IL-1beta,IL-1b,IL18,MGD-MRK-11352,MGD-MRK-11367,interleukin 1 beta CD321a,IL-1 receptor alpha chain,IL-1R1,IL-1R,IL1r1,IL1r1,MGD-MRK-11369,MGD-MRK-11371,interleukin 1 receptor, type 1	interleukin 13
Il18r1	NM_001161842.1	IL18R1,IL18R1,IL18rp,MGD-MRK-33052,interleukin 1 receptor related protein,interleukin 18 receptor 1	interleukin 17A
Il1b	NM_008361.3	IL-18,IL-1beta,IL-1b,IL18,MGD-MRK-11352,MGD-MRK-11367,interleukin 1 beta CD321a,IL-1 receptor alpha chain,IL-1R1,IL-1R,IL1r1,IL1r1,MGD-MRK-11369,MGD-MRK-11371,interleukin 1 receptor, type 1	interleukin 18 receptor 1
Il1r1	NM_001123382.1	6430709H04Rik,AI255955,AV239853,IL-1R ACP,IL-1RAcP,IL1rap,MGD-MRK-31048,MGI:2146394,MGI:2146602,MGI:2441718,RIKEN cDNA 6430709H04 gene,expressed sequence AI255955,expressed sequence AV239853,interleukin 1 receptor accessory protein	interleukin 1 beta
Il1rap	NM_134103.2	IL21R1,NILR,interleukin 21 receptor IL-27,IL-27p28,IL27,IL30,interleukin 27,interleukin 30,p28	interleukin 1 receptor, type 1
Il21r1	NM_021887.1	CD25,IL-2R alpha chain,IL2r,IL2ra,Ly-43,MGD-MRK-11375,MGD-MRK-11376,MGD-MRK-11985,interleukin 2 receptor, alpha chain,lymphocyte antigen 43	interleukin 1 receptor accessory protein
Il27	NM_145636.1	CD122,IL-15 receptor beta chain,IL-15RBeta,IL-2/15RBeta,IL15RBeta,IL-2RBeta,IL2rb,MGD-MRK-11377,interleukin 2 receptor, beta chain	interleukin 21 receptor
Il2ra	NM_008367.2	9230117N10Rik,IL-33,IL33,IL33,Hf3-HEV,RIKEN cDNA 9230117N10 gene,interleukin 33	interleukin 27
Il2rb	NM_008368.3	IL-4,IL4,MGD-MRK-11355,MGD-MRK-11385,interleukin 4 IL-6,IL6,MGD-MRK-11357,MGD-MRK-11395,interleukin 6	interleukin 2 receptor, alpha chain
Il3	NM_133775.1	5133400A03Rik,AA389424,AA405851,CD130,D13Ertd699e.DNA segment, Chr 13, ERATO Doi 699, expressed,IL6st,MGD-MRK-11393,MGI:1277187,MGI:1918567,MGI:3034594,MGI:3034705,RIKEN cDNA 5133400A03 gene,expressed sequence AA389424,expressed sequence BB405851,gp130,interleukin 6 signal transducer	interleukin 2 receptor, beta chain
Il4	NM_021283.1	IL6,IL6,MGD-MRK-11357,MGD-MRK-11395,interleukin 6	interleukin 3
Il6	NM_031168.1	5133400A03Rik,AA389424,AA405851,CD130,D13Ertd699e.DNA segment, Chr 13, ERATO Doi 699, expressed,IL6st,MGD-MRK-11393,MGI:1277187,MGI:1918567,MGI:3034594,MGI:3034705,RIKEN cDNA 5133400A03 gene,expressed sequence AA389424,expressed sequence BB405851,gp130,interleukin 6 signal transducer	interleukin 4
Il6st	NM_010560.2	AAS11515,EST AA511515,ESTM24,ILK,MGI:1201384,expressed sequence tag mouse EST 24,integrin linked kinase	interleukin 6
Ilk	NM_010562.2	A132613,Inpp5d,MGD-MRK-35823,MGI:2138207,SHIP,SHIP-1,SHIP1,Src homology 2 domain-containing inositol-5-phosphatase,expressed sequence A132613,inositol polyphosphate-5-phosphatase D,S-SHIP 4932439J01Rik,CD220,D63001A415Rik,IR,IR-A,IR-B,Insr,MGD-MRK-11417,MGI:2442502,MGI:2443766,RIKEN cDNA 4932439J01 gene,RIKEN cDNA D63001A415 gene,insulin receptor	integrin linked kinase
Inpp5d	NM_00110192.1	AA682088,D7Ertd237e,D7Ertd257e.DNA segment, Chr 7, ERATO Doi 237, expressed,DNA segment, Chr 7, ERATO Doi 257, expressed,IQ motif containing GTPase activating protein	inositol polyphosphate-5-phosphatase D
Insr	NM_010568.2	1,Igapap1,MGI:1098558,MGI:1098580,MGI:2141849,expressed sequence AA682088,mkIAA0051 4833428C1Rik,AA563835,IRAK-M,IRAK3,MGI:2143647,RIKEN cDNA 4833428C1 gene,expressed sequence AI563835,interleukin-1 receptor-associated kinase 3	insulin receptor
Igapap1	NM_016772.1	AU020929,IR-1,IRf1,MGD-MRK-11464,MGD-MRK-11465,MGI:2144403,expressed sequence	IQ motif containing GTPase activating protein 1
Irak3	NM_028679.3	AU020929,interferon regulatory factor 1 C920001K05Rik,IRF-3,IRf3,MGI:2441924,RIKEN cDNA C920001K05 gene,interleukin regulatory factor 3	interleukin-1 receptor-associated kinase 3
Irfl	NM_008390.1	A1835587,IR-4,IRf4,MGD-MRK-29048,MGI:104895,MGI:2145221,Sppl1,PU.1 interaction partner,Spip,expressed sequence A1835587,interleukin regulatory factor 4	interleukin regulatory factor 1
Irfl3	NM_016849.4	A189358,K3BP,IRF-8,Ic8b,IRF8,MGD-MRK-11151,MGI:2145445,MGI:3574547,Myk,expressed sequence A189358,interleukin consensus sequence binding protein 1,interleukin regulatory factor 8,myeloproliferative syndrome	interleukin regulatory factor 3
Irfl4	NM_013674.1	G972R,IRS-1,IRS1,MGD-MRK-16223,insulin receptor substrate 1 10038882,G1p2,IGS15 ubiquitin-like modifier,Ig15,MGI:3809535,interferon, alpha-inducible protein,interferon-stimulated protein,predicted gene, I0038882	interleukin regulatory factor 4
Irfl8	NM_008320.3	16000230I1Rik,2010107M23Rik,20kDa,DnaQ1,HEM45,Igq20,MGI:1914966,MGI:1923946,RIKEN cDNA 16000230I1 gene,RIKEN cDNA 2010107M23 gene,interferon-stimulated protein	interleukin regulatory factor 8
Irsl1	NM_010570.4	6720481N21Rik,8030492O04Rik,AIP4,C230047CD7Rik,Itch,MGI:1924982,MGI:2441729,MGI:2443666,RIKEN cDNA 6720481N21 gene,RIKEN cDNA 8030492O04 gene,RIKEN cDNA C230047CD7 gene,Itchy, E3 ubiquitin protein ligase	insulin receptor substrate 1
Itch	NM_008395.2	CD49A,E130012M19Rik,Igta1,MGD-MRK-11478,MGD-MRK-19432,MGI:2444353,RIKEN cDNA E130012M19 gene,Vla1,Integrin alpha 1	Itchy, E3 ubiquitin protein ligase
Igta1	NM_001033228.3	Itga4,MGD-MRK-11482,VLA-4 receptor, alpha 4 subunit,Integrin alpha 4 CD49e,Fna1,Igta5,MGD-MRK-11483,MGD-MRK-9851,fibronectin receptor alpha (Itga5),Integrin alpha 5 (fibronectin receptor alpha)	Integrin alpha 1
Igta4	NM_010576.3	1925400N18Rik,6720481N21Rik,AA61869,D9Ertd428e.DNA segment, Chr 9, ERATO Doi 428, expressed,Igta9,MGD-MRK-20047,MGI:1196244,MGI:1917357,MGI:2143064,RIKEN cDNA 1925400N18 gene,RIKEN cDNA 6720481N21 gene,expressed sequence A661869,Integrin alpha 9 4633401G24Rik,AA409975,AA960159,CD29,ENSMUSG00000051907,Fnrb,Gm9863,Igfb1,MGD-MRK-11489,MGD-MRK-9852,MGI:1918062,MGI:2142419,MGI:2142452,MGI:3708799,RIKEN cDNA 4633401G24 gene,beta 1,Integrin,expressed sequence AA409975,expressed sequence AA960159,Integrin regulatory factor 4 (Integrin),Integrin beta 1 (Fibronectin receptor beta),predicted gene, 9853,predicted gene, ENSMUSG00000051907	Integrin alpha 4
Igta5	NM_001131404.1	1925400N18Rik,6720481N21Rik,AA61869,D9Ertd428e.DNA segment, Chr 9, ERATO Doi 428, expressed,Igta9,MGD-MRK-20047,MGI:1196244,MGI:1917357,MGI:2143064,RIKEN cDNA 1925400N18 gene,RIKEN cDNA 6720481N21 gene,expressed sequence A661869,Integrin alpha 9 4633401G24Rik,AA409975,AA960159,CD29,ENSMUSG00000051907,Fnrb,Gm9863,Igfb1,MGD-MRK-11489,MGD-MRK-9852,MGI:1918062,MGI:2142419,MGI:2142452,MGI:3708799,RIKEN cDNA 4633401G24 gene,beta 1,Integrin,expressed sequence AA409975,expressed sequence AA960159,Integrin regulatory factor 4 (Integrin),Integrin beta 1 (Fibronectin receptor beta),predicted gene, 9853,predicted gene, ENSMUSG00000051907	Integrin alpha 5 (fibronectin receptor alpha)
Igta9	NM_001131541.1	4633401G24Rik,AA409975,AA960159,CD29,ENSMUSG00000051907,Fnrb,Gm9863,Igfb1,MGD-MRK-11489,MGD-MRK-9852,MGI:1918062,MGI:2142419,MGI:2142452,MGI:3708799,RIKEN cDNA 4633401G24 gene,beta 1,Integrin,expressed sequence AA409975,expressed sequence AA960159,Integrin regulatory factor 4 (Integrin),Integrin beta 1 (Fibronectin receptor beta),predicted gene, 9853,predicted gene, ENSMUSG00000051907	Integrin alpha 9
Igfb1	NM_010578.1	CD61,Igfb3,MGD-MRK-11491,Integrin beta 3,platelet glycoprotein IIIa (GP3a) A1649341,Ip3r2,Itp2,Itp3,MGD-MRK-11439,MGD-MRK-16180,MGD-MRK-18668,MGI:101846,MGI:2141462,expressed sequence A1649341,inositol 1,4,5-triphosphate receptor	Integrin beta 1 (fibronectin receptor beta)
Igfb3	NM_016780.2	2,inositol 1,4,5-triphosphate receptor 5 A8E2,G5f5b2,Headturner,Hfu,Igfb1,MGI:1891333,MGI:2664252,MGI:3530800,Oiz,Serrate-1,Igfb1 abnormal behavior 2,headturner,Igged1,Iozy	Integrin beta 3
Itp2	NM_010586.1	D12Ggc2e,DNA segment, Chr 12, G. Consalez 2, expressed,Iag2,MGD-MRK-14445,MGD-MRK-36557,MGD-MRK-39539,MGI:107977,MGI:109540,MGI:98321,Serb,Igged2,Serrate homolog	inositol 1,4,5-triphosphate receptor 2
Iag2	NM_010588.2	(Drosophila),sm,src,tyrosinase AA960307,JAPO4,C130039I05Rik,Iak1,Janus kinase 1,MGD-MRK-11516,MGI:2140180,MGI:2443062,MGI:5425487,RIKEN cDNA C130039I05 gene,bone alkaline phosphatase mutant 004,expressed sequence AA960307	Igged1
Iak1	NM_146145.2	A1504024,C81284,Iak2,Janus kinase 2,MGD-MRK-11517,MGI:2147569,MGI:2147795,expressed sequence A1504024,expressed sequence C81284	Igged2
Iak2	NM_008413.2	AU020929,Ijm44,expressed sequence AU020929,jumonji domain containing 4	Janus kinase 1
Ijm44	NM_178659.5	Jun,Jun-c oncogene,Junc,MGD-MRK-11538,MGD-MRK-11540,c-jun,Jun proto-oncogene	Janus kinase 2
Jun	NM_010593.2	Jun,Jun-c oncogene,Junc,MGD-MRK-11538,MGD-MRK-11540,c-jun,Jun proto-oncogene	Junonji domain containing 4

Mecp2	NM_010788.2	1500041807Rik, BB130002, D630021H01Rik, MGD-MRK-16719, MGI:2148036, MGI:2442482, MGI:2442970, Mb5d, Mecp2, RIKEN cDNA 1500041807 gene, RIKEN cDNA D630021H01 gene, WBP10, expressed sequence BB130002, methyl CpG binding protein 2	methyl CpG binding protein 2
Mef2a	NM_001033713.1	Ai33007505Rik, MGD-MRK-16310, MGI:2445167, Mef2a, RIKEN cDNA A43007505 gene, myocyte enhancer factor 2A	myocyte enhancer factor 2A
Mefv	NM_001161790.1	FMF, Mediterranean fever, Mefv, TRIM20, marenostrin, pyrin	Mediterranean fever
Met	NM_008591.1	Ai838057, HGF receptor, MGD-MRK-12203, MGI:1197520, MGI:2141478, Met, Par4-C-Met, expressed sequence Ai838057, met proto-oncogene, pulmonary adenoma resistance 4	met proto-oncogene
Mfap3	NM_180599.1	2610509F16Rik, 2700079M14Rik, AWS36327, MGI:1922073, MGI:2144550, Mfap3, RIKEN cDNA 2610509F16 gene, RIKEN cDNA 2700079M14 gene, expressed sequence AWS36327, microfibrillar-associated protein 3	microfibrillar-associated protein 3
Mki67	NM_001081117.2	D630048A1Rik, Ki-67, Ki67, MGD-MRK-33719, MGI:2444351, Mki67, RIKEN cDNA D630048A1 gene, antigen identified by monoclonal antibody Ki 67	antigen identified by monoclonal antibody Ki 67
Mlxip1	NM_021455.4	CHREP, MLX interacting protein-like, Mlxip1, WS-bHLH, Wbcsr14, Williams-Beuren syndrome chromosome region 14 homolog (human), bHLH14	MLX interacting protein-like
Mmp10	NM_019471.2	AV377895, MGD-MRK-12277, MGI:2143274, Mmp10, expressed sequence AV377895, matrix metalloproteinase 10, stromelysin 2	matrix metalloproteinase 10
Mmp11	XM_006513318.2	MGD-MRK-12278, MGD-MRK-14628, Mmp11, ST3, Stry3, matrix metalloproteinase 11, stromelysin 3, stromelysin 3	matrix metalloproteinase 11
Mmp12	NM_008605.3	AV378681, MGD-MRK-12275, MGI:2143275, MMP12, Mmel, Mmp12, expressed sequence AV378681, macrophage elastase, macrophage metalloelastase, matrix metalloproteinase 12	matrix metalloproteinase 12
Mmp13	NM_008607.1	Ctg, Collagenase-3, MGD-MRK-12276, MGD-MRK-2012, MGI:97006, MMP-13, Mmp13, Mmp13, collagenase, fibroblast, collagenase-1, interstitial collagenase, matrix metalloproteinase 13, matrix metalloproteinase 13	matrix metalloproteinase 13
Mmp14	NM_008608.3	Ai325305, MGD-MRK-18727, MGI:2145621, MGI:3717409, MT1-MMP, Membrane type 1-MMP, Mmp14, expressed sequence Ai325305, matrix metalloproteinase 14 (membrane-inserted), sabe, small and bugged-eyed	matrix metalloproteinase 14 (membrane-inserted)
Mmp16	NM_019724.3	M13-MMP, Membrane type 3-MMP, Mmp16, matrix metalloproteinase 16	matrix metalloproteinase 16
Mmp1a	NM_032006.3	Mcol-A, Mmp1a, matrix metalloproteinase 1a (interstitial collagenase)	matrix metalloproteinase 1a (interstitial collagenase)
Mmp1b	NM_032007.3	Mcol-B, Mmp1b, matrix metalloproteinase 1b (interstitial collagenase)	matrix metalloproteinase 1b (interstitial collagenase)
Mmp2	NM_008610.2	72kDa gelatinase, 72kDa type IV collagenase, Ctg4, Gela, MGD-MRK-12279, MGD-MRK-2013, MMP-2, Mmp2, collagenase IVA, basement membrane, 72 kDa gelatinase A, matrix metalloproteinase 2	matrix metalloproteinase 2
Mmp3	NM_010809.1	MGD-MRK-12280, MGD-MRK-14627, Mmp3, SLN-3, SLN1, STR-1, Stry1, matrix metalloproteinase 3, progelatinase, stromelysin 1, stromelysin-1	matrix metalloproteinase 3
Mmp7	NM_010810.4	MAT, MGD-MRK-24057, Mmp7, matrilysin, matrix metalloproteinase 7	matrix metalloproteinase 7
Mmp8	NM_008611.4	BB138268, Collagenase-2, MGI:2143366, Mmp8, expressed sequence BB138268, matrix metalloproteinase 8	matrix metalloproteinase 8
Mmp9	NM_013599.2	AW743869, B/MMP9, Ctg4b, Gel B, Galatinase B, MGD-MRK-12281, MGD-MRK-2014, MGI:2139414, MMP-9, Mmp9, collagenase IVb, basement membrane, 92 kDa, expressed sequence AW743869, gelatinase B, matrix metalloproteinase 9	matrix metalloproteinase 9
Mmrn1	NM_001163507.1	4921530G03Rik, Emilin4, Mmrn1, RIKEN cDNA 4921530G03 gene, multimerin 1	multimerin 1
Mmut	NM_008650.3	D230010K2Rik, MGD-MRK-12719, MGI:2441954, Mmut, Mut, RIKEN cDNA D230010K02 gene, methylmalonyl-Coenzyme A mutase	methylmalonyl-Coenzyme A mutase
Mob1b	NM_026735.2	1110003E08Rik, AU015450, MGI:2141027, MOB kinase activator 1B, MOB1, Mps One Binder kinase activator-like 1A (yeast), Mob1b, Mobk1a, RIKEN cDNA 1110003E08 gene, expressed sequence AU015450	MOB kinase activator 1B
Ms4a1	NM_007641.5	AA960661, CD20 antigen, Cd20, Ly-44, MGD-MRK-11986, MGD-MRK-1838, MGI:2147465, Ms4a1, expressed sequence AA960661, lymphocyte antigen 44, membrane-spanning 4-domains, subfamily A, member 1	membrane-spanning 4-domains, subfamily A, member 1
Ms4a2	NM_001276330.1	Fc epsilon high affinity receptor beta, Fc receptor, high affinity 1, beta polypeptide, FcRb, Fcepsilon1b, FcRbeta, MGD-MRK-9725, MGD-MRK-9729, Ms4a2, membrane-spanning 4-domains, subfamily A, member 2	membrane-spanning 4-domains, subfamily A, member 2
Ms4a4a	XM_003086124.1	EG666907, Ms4a4a, membrane-spanning 4-domains, subfamily A, member 4A, predicted gene, EG666907	membrane-spanning 4-domains, subfamily A, member 4A
Mtm4	NM_133215.1	Ai450755, EST A450755, EST144, PYVE zinc finger phosphatase, PYVE, DSP2, MGI:1334430, Mtm4, ZFYVE11, expressed sequence tag mouse EST 44, mkiAA0647, myotubularin related protein 4	myotubularin related protein 4
Mtor	NM_020009.2	2610315D21Rik, Ai327068, FK506 binding protein 12-rapamycin associated protein 1, FKBP-rapamycin-associated protein FRAP, Frap1, MGI:1332655, MGI:1919780, MGI:2140250, Mtor, RAFT1, RAFT1, RIKEN cDNA 2610315D21 gene, expressed sequence Ai327068, flat-flat-top, mechanistic target of rapamycin [serine/threonine kinase] mechanistic target of rapamycin kinase	mechanistic target of rapamycin kinase
Muc5b	XM_00650653.1	23000204Rik, AV085033, MGI:2142176, MUC5, MUC3, Muc5b, RIKEN cDNA 2300020404 gene, expressed sequence AV085033, mucin 5, subtype B, tracheobronchial	mucin 5, subtype B, tracheobronchial
Myd88	NM_010851.2	MGD-MRK-37039, Myd88, myeloid differentiation primary response gene 88	myeloid differentiation primary response gene 88
Myi2	NM_010861.3	MGD-MRK-12770, MLC-2, MLC-2v, Mlc2v, Myi2, Myi2c, myosin light chain, phosphorylatable, cardiac ventricles/capsin, light polypeptide 2, regulatory, cardiac, slow	myosin, light polypeptide 2, regulatory, cardiac, slow
Myik	NM_139300.3	953007215Rik, A930019C19Rik, AW489456, MGI:1915492, MGI:2142787, MGI:2443108, MLCK108, MLCK210, Mlck, Myiik, RIKEN cDNA 953007215 gene, RIKEN cDNA A930019C19 gene, expressed sequence AW489456, myosin, light polypeptide kinase, nmMlck, telokin	myosin, light polypeptide kinase
Ncam1	NM_001113204.1	CD56, E-NCAM, MGD-MRK-12786, NCAM, NCAM-1, NCAM-120, NCAM-140, NCAM-180, Ncam1, neural cell adhesion molecule 1	neural cell adhesion molecule 1
Nceh1	NM_178772.3	Ai4451, B230106I2Rik, CPO-BP, Nceh1, RIKEN cDNA B230106I24 gene, mkiAA1363, neutral cholesterol ester hydrolase 1	neutral cholesterol ester hydrolase 1
Ncf1	NM_001286037.1	MGD-MRK-12789, MGD-MRK-12792, NADPH oxidase subunit (47kDa), NOXO2, Ncf-1, Ncf1, neutrophil cytosolic factor 1, neutrophil cytosolic factor 1, p47-phox-, p47phox	neutrophil cytosolic factor 1
Ncf4	NM_008677.2	Ai451400, MGD-MRK-38230, MGI:2146016, Ncf4, expressed sequence Ai451400, neutrophil cytosolic factor 4, p40phox	neutrophil cytosolic factor 4
Nck2	NM_010879.3	4833426I0Rik, Grb4, MGI:1921842, NCKbeta, Nck2, RIKEN cDNA 4833426I10 gene, growth factor receptor-bound 4, non-catalytic region of tyrosine kinase adaptor protein 2	non-catalytic region of tyrosine kinase adaptor protein 2
Nckap1	NM_153505.4	4930568P13Rik, Ai463083, Hem1, MGI:2146023, NCK associated protein 1 like, Nckap1, RIKEN cDNA 4930568P13 gene, expressed sequence Ai463083	NCK associated protein 1 like
Ncoa2	XM_017319230.1	D1E70438e, DNA segment, Chr 1, ERATO Doi 433, expressed, Gripi1, KAT13C, MGD-MRK-31900, MGI:107419, MGI:1196370, Ncoa2, SRC-2, TIF-2, TIF2/GBP-1, NhlM75, glucocorticoid receptor interacting protein 1, glucocorticoid receptor-interacting protein 1, nuclear receptor coactivator 2	nuclear receptor coactivator 2
Ncor2	NM_011424.2	Ncor2, SMRT, SMRTe, nuclear receptor co-repressor 2	nuclear receptor co-repressor 2
Ncr1	NM_010746.3	Ly94, MARI [mouse activating receptor 1], Nk46, Ncr1, lymphocyte antigen 94, natural cytotoxicity triggering receptor 1	natural cytotoxicity triggering receptor 1
Ncstn	NM_021607.3	9430058I8Rik, A477311, D11Dau13e, DNA segment, Chr 1, DA Underhill 13, expressed, EST A477311, MGI:1347057, MGI:1888989, MGI:1915366, Ncstn, Nct, RIKEN cDNA 9430058I9 gene, mkiAA0253, nicastrin	nicastin
Ndufa1	NM_019443.2	1810049F12Rik, MGI:1923962, MWFE, NADH:ubiquinone oxidoreductase subunit A1, Ndufa1, RIKEN cDNA 1810049F12 gene	NADH:ubiquinone oxidoreductase subunit A1
Ndufb5	NM_025316.2	0610007D9Rik, AU015782, MGI:2139964, NADH:ubiquinone oxidoreductase subunit B5, Ndufb5, RIKEN cDNA 0610007D9 gene, expressed sequence AU015782	NADH:ubiquinone oxidoreductase subunit B5
Ndufb6	NM_001033305.2	Gm137, LOC320075, NADH:ubiquinone oxidoreductase subunit B6, Ndufb6, gene model 137, (NCBI)	NADH:ubiquinone oxidoreductase subunit B6
Ndufb8	NM_026061.2	2900010D5Rik, A1987932, MGI:2147623, NADH:ubiquinone oxidoreductase subunit B8, Ndufb8, RIKEN cDNA 2900010D5 gene, expressed sequence A1987932	NADH:ubiquinone oxidoreductase subunit B8
Ndufc1	NM_025223.1	2310016K22Rik, NADH:ubiquinone oxidoreductase subunit C1, Ndufc1, RIKEN cDNA 2310016K22 gene	NADH:ubiquinone oxidoreductase subunit C1
Ndufs3	NM_026688.2	0610010M9Rik, NADH:ubiquinone oxidoreductase core subunit S3, Ndufs3, RIKEN cDNA 0610010M9 gene	NADH:ubiquinone oxidoreductase core subunit S3
Ndufs5	NM_001030274.1	Ai256693, MGI:2146398, NADH:ubiquinone oxidoreductase core subunit S5, Ndufs5, expressed sequence Ai256693	NADH:ubiquinone oxidoreductase core subunit S5
Nedd8	NM_008683.3	MGD-MRK-12814, Nedd8, Rub1, neural precursor cell expressed, developmentally down-regulated gene 8	neural precursor cell expressed, developmentally down-regulated gene 8
Nf1	NM_010897.2	AW494271, MGD-MRK-12821, MGD-MRK-12822, MGI:2144546, MGI:2450693, Martin Heide de Angelis dark skin 9, Mhdadsk9, NF-1, NF1, dark skin 9, expressed sequence AW494271, neurofibromatosis 1, neurofibromin, neurofibromin 1	neurofibromin 1
Nfam1	NM_028728.2	4921501M20Rik, Nfam1, Nfat activating molecule with ITAM motif 1, RIKEN cDNA 4921501M20 gene	Nfat activating molecule with ITAM motif 1
Nfkb1	NM_008689.2	MGD-MRK-12829, NF kappaB1, NF-kappaB, NF-kappaB p50, Nfkb1, nuclear factor kappaB p50, nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105, p50, p50 subunit of NF kappaB, p50/p105	nuclear factor of kappa light polypeptide gene enhancer in B cells 1, p105
Nid1	NM_010917.2	MGD-MRK-12878, Nid1, entactin, entactin 1, entactin-1, nidogen 1, nidogen-1	nidogen 1
Nid2	NM_008695.2	AW547149, MGI:2145830, Nid2, entactin 2, entactin-2, expressed sequence AW547149, nidogen 2	nidogen 2
Nkg7	NM_024253.4	2500004F03Rik, MGI:1919560, Nkg7, RIKEN cDNA 2500004F03 gene, natural killer cell group 7 sequence	natural killer cell group 7 sequence
Nlr4	NM_001033367.3	95300119Rik, Card12, Ipaf, NLR family, CARD domain containing 4, Nlr4, RIKEN cDNA 9530011P19 gene, caspase recruitment domain family, member 12	NLR family, CARD domain containing 4
Nlrp3	NM_145827.3	C1s1, Mmi1g1, NALP3, NLR family, pyrin domain containing 3, Nlrp3, Pypaf1, cold autoinflammatory syndrome 1 homolog (human), cryopyrin	NLR family, pyrin domain containing 3
Nos1	NM_008712.2	2310005C01Rik, MGD-MRK-12909, MGD-MRK-12912, MGI:1923980, NO, Nos-1, Nos1, RIKEN cDNA 2310005C01 gene, nNOS, nNOS, nitric oxide synthase 1 (macrophage), nitric oxide synthase 1, neuronal	nitric oxide synthase 1, neuronal
Nos3	NM_008713.4	2310065A03Rik, MGD-MRK-12911, MGD-MRK-12914, MGI:1919183, Nos-3, Nos3, RIKEN cDNA 2310065A03 gene, eNOS, eNOS, nitric oxide synthase 3 (inducible), nitric oxide synthase 3, endothelial cell	nitric oxide synthase 3, endothelial cell
Notch1	NM_008714.2	9930111A19 gene, Tan1, ln-12, notch 1, translocation-associated Notch	notch 1
Notch2	NM_010928.1	Ai853703, MGD-MRK-12916, MGI:2139830, Moch B, N2, Notch2, expressed sequence Ai853703, notch 2	notch 2
Notch3	NM_008716.2	AW229011, MGD-MRK-16230, MGI:2147057, MGI:4418502, N3, Notch3, expressed sequence	notch 3
Notch4	NM_010929.2	Int-3, Int3, MGD-MRK-11420, MGD-MRK-11427, MGD-MRK-36038, N4, Notch4, mammary tumor integration site 3, notch 4	notch 4
Npc1	NM_008720.2	A430089E03Rik, C85354, D18Erd139e, D18Erd723e, DNA segment, Chr 18, ERATO Doi 139, expressed, DNA segment, Chr 18, ERATO Doi 723, expressed, MGD-MRK-11760, MGD-MRK-14533, MGI:1098828, MGI:1839359, MGI:2147413, MGI:2444276, MGI:2686738, MGI:96758, MGI:98383, NPC intracellular cholesterol transporter 1, Npc1, RIKEN cDNA A430089E03 gene, expressed sequence	NPC intracellular cholesterol transporter 1
Npc4	NM_153424.2	C85354, lcsd, lysosomal cholesterol storage disease, neuroscience mutagenesis facility, 164, nmf164, sphingomyelinosis, spm	NPC intracellular cholesterol transporter 1
Nph4	NM_153424.2	4930564O18Rik, MGI:1922543, MGI:3032505, Nph4, RIKEN cDNA 4930564O18 gene, nephronophthisis 4 (juvenile) homolog (human), neuroscience mutagenesis facility, 192, nmf192	nephronophthisis 4 (juvenile) homolog (human)

Nr1h2	NM_009473.2	A1194859, LXRb, MGD-MRK-24047, MGI:103179, MGI:2141876, Nr1h2, RIP15, Unr, Unr, 2, expressed sequence A1194859, nuclear receptor subfamily 1, group H, member 2, ubiquitously-expressed nuclear receptor, ubiquitously-expressed nuclear receptor 2	nuclear receptor subfamily 1, group H, member 2
Nr1h3	NM_001177730.1	A1018371, LXR alpha, MGI:130881, MGI:193165, Nr1h3, Unr1, expressed sequence A1018371, nuclear receptor subfamily 1, group H, member 3, ubiquitously-expressed nuclear receptor 1	nuclear receptor subfamily 1, group H, member 3
Nr1h4	NM_009108.2	A957360, FXR, FXR, HHR1, MGD-MRK-24051, MGD-MRK-33613, MGI:103183, MGI:105934, MGI:2143705, Nr1h4, RIP14, Rrip14, expressed sequence A957360, farnesoid X receptor, nuclear receptor subfamily 1, group H, member 4, retinoid X receptor interacting protein 14	nuclear receptor subfamily 1, group H, member 4
Nrip3	NM_020610.1	A33018305, RIKEN, D7H1Lorf1A, ICRF703B1614Q5, 2, ICRF703N243Q05, 2, MGI:1928766, Nrip3, RIKEN cDNA A33018305, gene, nuclear receptor interacting protein 3, predicted gene ICRF703B1614Q5, 2	nuclear receptor interacting protein 3
Nrp2	NM_001077403.1	1110048P06Rk, MGI:1916002, NP-2, NP2, Npn-2, Npn2, Nrp2, RIKEN cDNA 1110048P06, gene, neuropilin 2	neuropilin 2
Numb	NM_001136075.1	MGD-MRK-35893, NUMB, NUMB endocytic adaptor protein, NumB, m-numb	NUMB endocytic adaptor protein
Oas1a/g	NM_145211.2	L3 and L2, Mmu-L2, Mmu-L2, Oas1a, Oas1, Oas-1	2'-5' oligoadenylate synthetase 1A/G
Oas1b	NM_001083925.1	2'-5' oligoadenylate synthetase 1B, 2'-5' oligoadenylate synthetase 2, Flavivirus resistance, Flv, L1, MGD-MRK-13024, MGD-MRK-13026, MGD-MRK-9840, MGI:2388353, MGI:95562, Mmu-L1, Oas1b, Oas-2, Oas2, West Nile virus, Wnv, flavivirus resistance	2'-5' oligoadenylate synthetase 1B
Oas1n	NM_145209.2	2'-5' oligoadenylate synthetase-like 1, 7530414C13Rk, MGI:2443464, Oas1n, RIKEN cDNA 7530414C13, gene	2'-5' oligoadenylate synthetase-like 1
Ocln	NM_008756.2	A1503564, MGD-MRK-33873, MGI:2145262, Oc, Occlin, expressed sequence A1503564, occludin	occludin
Ogt	NM_139144.3	1110038P24Rk, A831420N21Rk, A1115525, MGD-MRK-39587, MGI:109588, MGI:1923575, MGI:1924387, MGI:2147844, O-linked N-acetylglucosamine transferase like, O-linked N-acetylglucosamine transferase like, O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N acetylglucosamine polypeptide-N-acetylglucosaminyl transferase), OGT, Ogt, Ogt, RIKEN cDNA 1110038P24, gene, RIKEN cDNA A831420N21, gene, expressed sequence A115525	O-linked N-acetylglucosamine (GlcNAc) transferase (UDP-N-acetylglucosamine polypeptide-N-acetylglucosaminyl transferase)
Osbp5	NM_001199227.1	1110006M06Rk, A1462538, MGI:1915711, MGI:2141974, OBP5, Osbp5, RIKEN cDNA 1110006M06, gene, expressed sequence A1462538, oxysterol binding protein-like 5	oxysterol binding protein-like 5
P2ry13	NM_028808.3	2010001106Rk, G-protein-coupled receptor 86, Gpr86, P2ry13, P2ry13, RIKEN cDNA 2010001106, gene, SP174, purinergic receptor P2Y, G-protein coupled 13	purinergic receptor P2Y, G-protein coupled 13
P3h3	NM_013534.4	BC016431, Grcb, Leprel2, MGI:3039608, P3h3, cDNA sequence BC016431, gene, rich cluster, B, gene, leprecan-like 2, prolyl 3-hydroxylase 3	prolyl 3-hydroxylase 3
P4hb	NM_011032.2	Efp59, MGD-MRK-13114, MGD-MRK-15082, P4hb, Pdi1, Pdi1, Thbp, prolyl 4-hydroxylase, beta polypeptide, protein disulfide isomerase, thyroid hormone binding protein	prolyl 4-hydroxylase, beta polypeptide
Panx1	NM_019482.2	A1847747, MGI:2143143, Panx1, expressed sequence A1847747, pannexin 1	pannexin 1
Parp1	NM_007415.2	58304442G2Rk, ADP-ribosyltransferase (NAD+), poly (ADP-ribose) polymerase) 1, A1893648, Adppr, Adprt1, C80515, MGD-MRK-1132, MGI:2138374, MGI:2138692, MGI:87933, Parp1, PARP, Parp1, RIKEN cDNA 58304442G2, gene, expressed sequence A1893648, expressed sequence C80515, parp-1, poly (ADP-ribose) polymerase, poly (ADP-ribose) polymerase family, member 1, sPARP-1	poly (ADP-ribose) polymerase family, member 1
Parp4	NM_001145978.2	1, Adprt1, C030027K23Rk, E230037B21Rk, Gm743, MGI:1924669, PHSP, Parp4, RIKEN cDNA C030027K23, gene, RIKEN cDNA E230037B21, gene, VAULT3, VPARP, gene model 743, (NCBI), p193, poly (ADP-ribose) polymerase family, member 4	poly (ADP-ribose) polymerase family, member 4
Pccb	NM_025835.2	1300012P06Rk, A1314687, MGI:2143011, MGI:2143446, Pccb, R74805, RIKEN cDNA 1300012P06, gene, expressed sequence A1314687, expressed sequence R74805, propionyl Coenzyme A carboxylase, beta polypeptide	propionyl Coenzyme A carboxylase, beta polypeptide
Pck1	NM_011044.2	A1265463, MGD-MRK-13174, MGD-MRK-13175, MGI:2138871, PEPCCK, Pck1, Pck1, expressed sequence A1265463, phosphoenolpyruvate carboxylase 1, cytosolic	phosphoenolpyruvate carboxylase 1, cytosolic
Pcx	NM_008797.3	MGD-MRK-13166, MGD-MRK-13201, Pcx, Pcx, pyruvate carboxylase	pyruvate carboxylase
Pde2a	NM_001143848.1	Pde2a, cGMP phosphodiesterase 2A, cGMP-stimulated	phosphodiesterase 2A, cGMP-stimulated
Pde3b	NM_011055.2	9830102A01Rk, A1847709, MGI:2142046, MGI:2441760, Pde3b, RIKEN cDNA 9830102A01, gene, expressed sequence A1847709, phosphodiesterase 3B, cGMP-inhibited	phosphodiesterase 3B, cGMP-inhibited
Pdgbf	NM_011057.3	MGD-MRK-13212, MGD-MRK-14423, PDGF-B, Pdgbf, Pdgbf, platelet derived growth factor, B polypeptide, simian sarcoma oncogene	platelet derived growth factor, B polypeptide
Pdgrfb	NM_008809.1	A1528809, CD140b, MGD-MRK-13214, MGD-MRK-13217, MGI:2147240, Pdgrfb, expressed sequence A1528809, platelet derived growth factor receptor, platelet derived growth factor receptor, beta polypeptide	platelet derived growth factor receptor, beta polypeptide
Pdh1a	NM_008810.2	MGD-MRK-13218, MGD-MRK-13219, Pdh1a, Pdh1a, pyruvate dehydrogenase E1 alpha 1, pyruvate dehydrogenase E1 alpha subunit	pyruvate dehydrogenase E1 alpha 1
Pecam1	NM_008816.2	C85791, CD31 antigen, Cd31, MGD-MRK-13226, MGD-MRK-1848, MGI:2144682, PECAM1, Pecam1, expressed sequence C85791, platelet/endothelial cell adhesion molecule 1	platelet/endothelial cell adhesion molecule 1
Pell1	NM_023324.2	281046803Rk, A930031K1SRk, AA409794, A1586297, D11Ert6676e, DNA segment, Chr 11, ERATO Doi 676, expressed, MGI:127171, MGI:10512514, MGI:144003, MGI:2144230, Pell1, RIKEN cDNA 281046803, gene, RIKEN cDNA A930031K1, gene, expressed sequence AA409794, expressed sequence A1586297, pellino 1	pellino 1
Pell2	NM_033602.2	AW047589, B8129927, MGI:2145788, MGI:2145853, Pell2, expressed sequence AW047589, expressed sequence B8129927, pellino 2	pellino 2
Pgm2	NM_028132.3	3230402E02Rk, MGD-MRK-13275, MGD-MRK-13278, MGI:1913931, Pgm1, Pgm2, RIKEN cDNA 3230402E02, gene, phosphoglucomutase 1, phosphoglucomutase 2	phosphoglucomutase 2
Phlpp1	NM_133821.3	A183256, PH domain and leucine-rich repeat protein phosphatase, PH domain and leucine-rich repeat protein phosphatase 1, Phlpp, Phlpp1, Phlpp1, expressed sequence A183256, mKIAA0606, pleckstrin homology domain containing, family E (with leucine rich repeats) member 1	PH domain and leucine-rich repeat protein phosphatase 1
Phykp1	NM_028398.2	2900006B13Rk, 5-phosphohydroxy-L-lysine phospholase, Agxt2l2, Phykp1, RIKEN cDNA 2900006B13, gene, alanine-glyoxylate aminotransferase 2-like 2	5-phosphohydroxy-L-lysine phospholase
Pidd1	NM_022654.1	12000110D9Rk, A1042446, Lrtd, MGI:1918993, MGI:2142154, Pidd, Pidd1, RIKEN cDNA 12000110D9, gene, expressed sequence A1042446, leucine-rich and death domain containing, p53 induced death domain protein 1, p53 protein induced, with death domain	p53 induced death domain protein 1
Pik3c3	NM_181414.5	5330434F23Rk, Pik3c3, RIKEN cDNA 5330434F23, gene, Vps34, phosphatidylinositol 3-kinase catalytic subunit type 3	phosphatidylinositol 3-kinase catalytic subunit type 3
Pik3ca	NM_008839.1	6330412C24Rk, MGI:1917992, Pik3ca, RIKEN cDNA 6330412C24, gene, caP13k, pi110alpha, phosphatidylinositol-4,5-bisphosphate 3-kinase alpha	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha
Pik3cb	NM_029094.3	1110010I2Rk, A447572, MGI:2143049, Pik3cb, RIKEN cDNA 1110010I2, gene, expressed sequence A447572, pi110beta, phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
Pik3r4	NM_001081309.1	2210010015Rk, C730038E05Rk, C85833, D9Ert418e, DNA segment, Chr 9, ERATO Doi 418, expressed, MGI:1196267, MGI:2134428, MGI:2442102, Pik3r4, RIKEN cDNA 2210010015, gene, RIKEN cDNA C730038E05, gene, expressed sequence C85833, pi50, phosphoinositide 3-kinase regulatory subunit 4	phosphoinositide 3-kinase regulatory subunit 4
Pik3r5	NM_177320.2	AV230647, F7300381SRk, Foa2p, MGI:2144465, Pik3r5, RIKEN cDNA F7300381S, gene, expressed sequence AV230647, pi101, phosphoinositide-3-kinase regulatory subunit 5	phosphoinositide 3-kinase regulatory subunit 5
Pkh1d1	NM_153179.3	A1118496, A1182499, FPC, MGI:2138159, MGI:2138168, Pkh1d1, expressed sequence A1118496, expressed sequence A1182499, polycystic kidney and hepatic disease 1, tigmin	polycystic kidney and hepatic disease 1
Pkc2	NM_177568.2	A555304, B230205M18Rk, MGD-MRK-35937, MGI:2139001, MGI:3036256, Pkc2b, RIKEN cDNA B230205M18, gene, expressed sequence A555304, phospholipase C, beta 2	phospholipase C, beta 2
Pkc3	NM_008874.3	MGD-MRK-28070, Pkc3b, phospholipase C, beta 3	phospholipase C, beta 3
Picg1	NM_021280.3	A1894140, Cded, MGD-MRK-13350, MGD-MRK-13353, MGD-MRK-13355, MGI:1329022, MGI:2139113, Pic-1, Pic-gamma1, Picg-1, Picg1, cell differentiation and embryonic development, expressed sequence	phospholipase C, gamma 1
Picg2	NM_172285.1	A1894140, phospholipase C, gamma 1, phospholipase C, subtype 148	phospholipase C, gamma 2
Pig	NM_008877.2	MGD-MRK-13354, MGD-MRK-13355, MGI:133156, PIG, gamma2, Pig-2, Pig2, phospholipase C, gamma 2	phospholipase C, gamma 2
Plin4	XM_006524705.3	A1649309, MGD-MRK-13350, MGI:2146904, Plg, expressed sequence A1649309, plasminogen	plasminogen
Pipp4	NM_001080963.1	Plin4, S3-12, perilipin 4, plasma membrane associated protein, S3-12	perilipin 4
Ptp	NM_011125.2	C030048B12Rk, Gm1090, LOC381925, Pipp4, Ppapdca1, RIKEN cDNA C030048B12, gene, model 1090, (NCBI), phosphatidic acid phosphatase type 2 domain containing 1A, phospholipid phosphatase 4	phospholipid phosphatase 4
Pnoc	NM_001205075.1	Bpfe, MGD-MRK-24017, OD107, Ptp, phospholipid transfer protein	phospholipid transfer protein
Pnpla3	NM_054088.3	MGD-MRK-32349, N/OFQ, N23K, Npncl1, OFQ/N, Pnoc, neuropeptide nociceptin 1, prepronociceptin, proorphanin	prepronociceptin
Postn	NM_015784.2	Adpn, Pnpla3, adiponitrin, patatin-like phospholipase domain containing 3	patatin-like phospholipase domain containing 3
Ppara	NM_011144.2	A630052E07Rk, A1747096, MGI:2139789, MGI:2444610, OSF-2, OSF2, Periostin, Postn, RIKEN cDNA A630052E07, gene, expressed sequence A1747096, periostin, osteoblast specific factor	periostin, osteoblast specific factor
Ppard	NM_011145.3	493342907Rk, A1118064, AW742785, MGD-MRK-13538, MGD-MRK-28031, MGI:2145949, MGI:2146246, MGI:3026969, Nr1c1, PPAR-alpha, PPARalpha, Ppar, Ppara, RIKEN cDNA 493342907, gene, expressed sequence A1118064, expressed sequence AW742785, peroxisome proliferator activated receptor, peroxisome proliferator activated receptor alpha	peroxisome proliferator activated receptor alpha
Pparg	NM_011146.1	MGD-MRK-18710, NUC1, Nr1c2, PPAR-delta, PPARdelta/beta, Peroxisome proliferator-activated receptor beta, Pparb, Pparb/d, Ppar, peroxisome proliferator activator receptor delta	peroxisome proliferator activator receptor delta
Ppargc1a	NM_008904.2	MGD-MRK-11589, Nr1c1, PPAR-gamma, PPARgamma, PPARgamma2, Ppar-gamma2, Pparg, peroxisome proliferator activated receptor gamma	peroxisome proliferator activated receptor gamma
Ppargc1b	NM_008904.2	A830037N07Rk, ENSMUSG00000079510, Gm11133, MGI:1203734, MGI:2443650, MGI:3779388, PPAR Gamma Coactivator-1, PPAR gamma coactivator 1, Pgc-1alpha, Pgc-1alpha, Pgc1, Pgcoc1, Ppargc1a, RIKEN cDNA A830037N07, gene, peroxisome proliferative activated receptor, gamma, coactivator 1 alpha, predicted gene 11133, predicted gene, ENSMUSG00000079510	peroxisome proliferative activated receptor, gamma, coactivator 1 alpha
Ppm1a	NM_008910.3	2310003C22Rk, 2900017D14Rk, A1427932, AU017636, MGD-MRK-16669, MGI:1916736, MGI:1920167, MGI:2144816, MGI:2144943, MPPa-2, MPPa-1, Mpp alpha, Ppm1a, RIKEN cDNA 2310003C21, gene, RIKEN cDNA 2900017D14, gene, expressed sequence A1427932, expressed sequence AU017636, protein phosphatase 1A, magnesium dependent, alpha isoform	protein phosphatase 1A, magnesium dependent, alpha isoform
Ppm2a	NM_019411.4	MGI:2144711, PPM2A, Ppm2a, PPM2A3, expressed sequence PPM2A3, protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform	protein phosphatase 2 (formerly 2A), catalytic subunit, alpha isoform
Prp1	NM_009475.2	Prp1, Upa, proline-rich acidic protein 1, uterine-specific proline-rich acidic protein	proline-rich acidic protein 1
Prdx1	NM_011034.4	MGD-MRK-16300, MSP23, OSF-3, PAG, Paga, Prdx1, Prx1, Prx1, TDX2, Tdx2, Trx dependent peroxide reductase 2, macrophage 23kDa stress protein, macrophage stress protein 23kDa, osteoblast specific factor 3, peroxidodexin 1, proliferation-associated gene A, prx1, thioredoxin dependent peroxide reductase 2	peroxidodexin 1
Prdx6	NM_007453.3	1-cys Prx1-cysPrx1, A940088019Rk, AA690119, Aop2, Brp-12, CC26, CP-3, Gp-Lw-4, Ltw4, Ltw4, MGD-MRK-11921, MGD-MRK-11926, MGD-MRK-11944, MGD-MRK-1637, MGI:2444784, MGI:3035058, MGI:96849, NSGP, Prdx6, RIKEN cDNA 9430088019, gene, acidic, calcium-independent phospholipase A2, aPLA2, brain protein 12, expressed sequence AA690119, liver 20-30 thousand M.Wt protein 4, liver 20-30 thousand M.Wt. protein 4, peroxidodexin 6	peroxidodexin 6

Prex1	NM_177782.3	BC067047.P-REX1,Prex1,cDNA sequence BC067047,phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1	phosphatidylinositol-3,4,5-trisphosphate-dependent Rac exchange factor 1
Prf1	NM_011073.2	MGD-MRK-13251,MGD-MRK-13605,Phn,Phn,Prf-1,Prf1,perforin,perforin 1 (pore forming protein),pore forming protein	perforin 1 (pore forming protein)
Pkka1	NM_001013367.3	AI194361,AI450832,AI024255,AMPKalpha1,C130083NDR1K,MGI:2146014,MGI:2146120,Prkaa1,RIKEN cDNA C130083N04 gene,expressed sequence AI194361,expressed sequence AI450832,expressed sequence AI024255,protein kinase, AMP-activated, alpha 1 catalytic subunit	protein kinase, AMP-activated, alpha 1 catalytic subunit
Pkacb	NM_182997.2	573055K2IRK,AW049591,8B124140,MGI:1922036,MGI:2139959,MGI:21440024,Prkab2,RIKEN cDNA 573055K21 gene,expressed sequence AW049591,expressed sequence 8B124140,protein kinase, AMP-activated, beta 2 non-catalytic subunit	protein kinase, AMP-activated, beta 2 non-catalytic subunit
Pkaca	NM_008854.3	C,Alpha,CS,MGD-MRK-13323,PKA,PKaca,protein kinase, cAMP dependent, catalytic, alpha	protein kinase, cAMP dependent, catalytic, alpha
Pkacb	NM_011100.3	MGD-MRK-13325,Placb,Prkab,cAMP-dependent protein kinase C beta,protein kinase, cAMP dependent, catalytic, beta	protein kinase, cAMP dependent, catalytic, beta
Pkag1	NM_016781.2	AA571379,8B036179,MGD-MRK-37454,MGI:2145917,MGI:2146255,Prkaac,Prkag1,expressed sequence AA571379,expressed sequence 8B036179,protein kinase, AMP-activated, gamma,protein kinase, AMP-activated, gamma 1 non-catalytic subunit	protein kinase, AMP-activated, gamma 1 non-catalytic subunit
Pkag2	NM_001170555.1	2410051C13RIK,AI854673,MGI:1920950,MGI:2141005,Prkag2,RIKEN cDNA 2410051C13 gene,expressed sequence AI854673,protein kinase, AMP-activated, gamma 2 non-catalytic subunit	protein kinase, AMP-activated, gamma 2 non-catalytic subunit
Pkca	NM_011101.3	AI875142,MGD-MRK-13327,MGI:2144325,PKca,PKca,expressed sequence AI875142,protein kinase C, alpha	protein kinase C, alpha
Pkcd	NM_011159.2	AI326420,AU019811,DNA-PK,PKna,PKcs,DNA-PKcs,DOWNPK,MGD-MRK-14312,MGD-MRK-28071,MGI:2146417,MGI:2146554,MGI:3574416,Prkdc,XRCC7,doxorubicin nephropathy,dmph,expressed sequence AI326420,expressed sequence AU019811,protein kinase, DNA activated, catalytic polypeptide,acid,severe combined immunodeficiency,slp	protein kinase, DNA activated, catalytic polypeptide
Prlr	NM_011169.5	AI987712,MGD-MRK-13598,MGD-MRK-13599,MGD-MRK-13614,MGD-MRK-13615,MGI:2146103,MGI:577154,Pr-1,Pr-1,Pr-1,Pr-1,expressed sequence AI987712,prolactin receptor,prolactin receptor 1,prolactin receptor 3,prolactin receptor related sequence 1	prolactin receptor
Pro1	NM_011173.2	AW214361,MGI:2146630,Pro1,expressed sequence AW214361,protein S,protein S (alpha)	protein S (alpha)
Psen2	NM_001128605.1	AI266870,ALG-3,Adhh,MGD-MRK-38329,MGI:2138190,PS-2,PS2,Psen2,alzheimer disease 4	presenilin 2
Psenen	NM_025498.2	homolog,expressed sequence AI266870,presenilin 2	presenilin 2
Psmc3	NM_008948.2	1700023M09RIK,Psenen,RIKEN cDNA 1700023M09 gene,presenilin enhancer gamma secretase subunit	presenilin enhancer gamma secretase subunit
Psmc7	NM_011185.3	AA409053,C81484,Lmpc5,MGD-MRK-11826,MGD-MRK-29037,MGI:2146756,MGI:2147141,Psmc1,expressed sequence AA409053,expressed sequence C81484,large multifunctional protease, subunit C5,proteasome (prosome, macropain) subunit, beta type 1	proteasome (prosome, macropain) subunit, beta type 1
Psmc8	NM_011187.1	MCI4,MGD-MRK-36211,Psmc7,proteasome (prosome, macropain) subunit, beta type 7	proteasome (prosome, macropain) subunit, beta type 7
Psmc8	NM_010724.2	Lmp-7,Lmp7,MGD-MRK-11822,MGD-MRK-11824,MGI:96798,Psmc8,large multifunctional protease 7,low molecular weight polypeptide 7,proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)	proteasome (prosome, macropain) subunit, beta type 8 (large multifunctional peptidase 7)
Psmc3	NM_008948.2	Psmc3,TBP-1,Tat binding protein 1,proteasome (prosome, macropain) 26S subunit, ATPase 3	proteasome (prosome, macropain) 26S subunit, ATPase 3
Psmc13	NM_011875.4	26S proteasome subunit p40.5,Psmc13.51,proteasome (prosome, macropain) 26S subunit, non-ATPase, 13	proteasome (prosome, macropain) 26S subunit, non-ATPase, 13
Ptaf	NM_001081211.1	MGD-MRK-33750,PAF receptor,PAF,PAF,platelet-activating factor receptor	platelet-activating factor receptor
Ptch1	NM_008957.2	A230106A15RIK,MGD-MRK-12200,MGD-MRK-33042,MGI:1924464,MGI:5004954,MGI:96966,Patched 1,Ptc,Ptc1,Ptch1,RIKEN cDNA A230106A15 gene,mes,mesenchymal dysplasia,patched 1,wig,wiggable EP4,MGD-MRK-25639,Ptger4,Ptger4,prostaglandin E receptor 4 (subtype EP4),prostaglandin E receptor EP4 subtype	patched 1
Ptger4	NM_008965.1	CDK2,Cdk-2,MGD-MRK-13665,PGHS-2,PHS-2,Phg2,Phg2,Tis10,cyclooxygenase 2,cyclooxygenase-2,prostaglandin G/H synthase,prostaglandin-endoperoxide synthase 2	prostaglandin-endoperoxide synthase 2
Ptk2	NM_007982.2	FAK,FRNK,MGD-MRK-9708,PTK2,protein tyrosine kinase 2,PK2,focal adhesion kinase	PTK2 protein tyrosine kinase 2
Ptk2	NM_001162365.1	Cskbeta,E430023O05RIK,MGD-MRK-29062,MGI:2444305,PTK2,protein tyrosine kinase 2 beta,PK2b,RIKEN cDNA E430023O05 gene,FAKf,calcium-dependent tyrosine kinase,cellular adhesion kinase beta,proline-rich tyrosine kinase 2,related adhesion focal tyrosine kinase	PTK2 protein tyrosine kinase 2 beta
Ptpa	NM_138748.5	2610042B2IRK,C77440,MGC-60706,MGC-7129,MGI:1923815,MGI:2139462,MGI:2139539,N2R142,Ppp2r4,Ptpa,RIKEN cDNA 2610042B21 gene,expressed sequence C77440,expressed sequence N2R142,protein phosphatase 2 protein activator,protein phosphatase 2A activator, regulatory subunit B	protein phosphatase 2 protein activator
Ptpn11	NM_011201.3	MGD-MRK-13674,PTP-1B,PTP1B,Ptpn11,protein tyrosine phosphatase, non-receptor type 1	protein tyrosine phosphatase, non-receptor type 1
Ptpn11	NM_011202.3	2700084A17RIK,AW536184,MGD-MRK-16288,MGI:1919896,MGI:2141206,PTP2C,Ptpn11,RIKEN cDNA 2700084A17 gene,SH-PTP2,SH2 domain-containing protein tyrosine phosphatase-2,SHP-2,Shp2,Syp,expressed sequence AW536184,protein tyrosine phosphatase, non-receptor type 11	protein tyrosine phosphatase, non-receptor type 11
Ptpn12	NM_011203.2	MGD-MRK-27036,P19,PTP,PTP-P19,PTP-PEST,Ptpn12,protein tyrosine phosphatase, non-receptor type 12	protein tyrosine phosphatase, non-receptor type 12
Ptpn6	NM_013545.2	Hghp,MGD-MRK-10672,MGD-MRK-12181,Ptp1C,Ptpn6,SHP-1,Spin,hcp,hemopoietic cell phosphatase, no non-receptor,protein tyrosine phosphatase, non-receptor type 6	protein tyrosine phosphatase, non-receptor type 6
Ptpcr	NM_011210.3	B220,CD45,CD45 antigen,CD45,ly-5,LY-4,MGD-MRK-11992,MGD-MRK-12076,MGD-MRK-13679,MGD-MRK-1864,MGI:3584395,Ptpcr-1,lymphocyte antigen 4,T200,lymphocyte antigen 4,protein tyrosine phosphatase, receptor type, C	protein tyrosine phosphatase, receptor type, C
Ptprc	NM_011210.3	AI115133,MGD-MRK-13703,MGI:2147475,PG,Pygm,expressed sequence AI115133,muscle glycogen phosphorylase	muscle glycogen phosphorylase
Pygm	NM_011224.1	5430435C23RIK,RAB7B, member RAS oncogene family,RIKEN cDNA 5430435C22 gene,Rab7b	RAB7B, member RAS oncogene family
Rab7b	NM_145509.2	AI023026,DSERtd596,DNA segment, Chr 5, ERATO Do S59, expressed,MGD-MRK-13748,MGI:2161850,MGI:2141016,Rac family small GTPase 1,Rac1,expressed sequence AI023026	Rac family small GTPase 1
Rac1	NM_009007.2	AI323801,AI452260,MGD-MRK-13749,MGI:2145980,MGI:2146018,Rac family small GTPase	Rac family small GTPase 1
Rac2	NM_009008.3	2,Rac2,expressed sequence AI323801,expressed sequence AI452260	Rac family small GTPase 2
Rac3	NM_133223.4	Rac family small GTPase 3,Rac3,Rac3	Rac family small GTPase 3
Rap1b	NM_024457.2	2810443E11RIK,MGI:1919983,RAS related protein 1b,RIKEN cDNA 2810443E11 gene,Rap1b	RAS related protein 1b
Rapgef1	NM_001039087.1	493241806RIK,C3G,Grf2,MGD-MRK-26014,MGI:2444538,RIKEN cDNA 493241806 gene,Rap guanine nucleotide exchange factor (GEF) 1,Rapgef1,guanine nucleotide releasing factor 2	Rap guanine nucleotide exchange factor (GEF) 1
Rapgef2	NM_001099624.2	1,Pdpepf1,RA-GEF-1,RIKEN cDNA 5830453M24 gene,Rap guanine nucleotide exchange factor (GEF)	Rap guanine nucleotide exchange factor (GEF) 2
Rasgrp4	NM_045676.1	2,Rasgrp4,mkIA003113,Rasgrp4	RAS guanyl releasing protein 4
Rbx1	NM_019712.3	1500002P15RIK,AA517855,MGI:1913478,MGI:2145915,RIKEN cDNA 1500002P15 gene,RDC1,Rbx1,expressed sequence AA517855,ring-box 1	ring-box 1
Rela	NM_009045.4	MGD-MRK-24172,Rela,p65,p65 NF kappaB,v-rel reticuloendotheliosis viral oncogene homolog A (avian)	v-rel reticuloendotheliosis viral oncogene homolog A (avian)
Relb	NM_009046.2	MGD-MRK-24171,MGI:4828325,Relb,avian reticuloendotheliosis viral (v-rel) oncogene related	avian reticuloendotheliosis viral (v-rel) oncogene related B
Reln	NM_011261.2	B,shcp,spontaneous hepatitis	avian reticuloendotheliosis viral (v-rel) oncogene related B
Reln	NM_011261.2	MGD-MRK-13895,MGD-MRK-23859,Reln,reeleer,reeleer,rl	reeleer
Resn	NM_022984.4	ADSF,Fiz3,Retn,Xcp4,adipocyte-specific secretory factor,resistin,rstn	resistin
Rgs7	NM_011880.3	Rgs7,regulator of G protein signaling 7	regulator of G protein signaling 7
Rho	NM_145383.1	1,opsin,LWS opsin,Long Wavelength sensitive opsin,MGC:21585,MGC:25387,MGD-MRK-13042,MGD-MRK-13866,MGI:2661843,Noerq1,Opn2,Opn,RP4,Red Opn,Rho,Rod Opn, no electroretinogram 1,opsin 2,rhodopsin	rhodopsin
Ripk3	NM_019955.1	2610528K09RIK,AW107945,MGI:1923812,MGI:2145796,RIKEN cDNA 2610528K09 gene,Rip3,Ripk3,expressed sequence AW107945, receptor-interacting serine-threonine kinase 3	receptor-interacting serine-threonine kinase 3
Ripk11	NM_033604.2	ArKada,Ripk11,ring finger 111	ring finger 111
Rnf152	NM_001160368.1	493302902RIK,RIKEN cDNA 493302902 gene,Rnf152,ring finger protein 152	ring finger protein 152
Rock2	NM_009072.2	B230113H15RIK,MGD-MRK-36506,MGI:1925098,RIKEN cDNA B230113H15 gene,ROKalpha,Rho-associated coiled-coil containing protein kinase 2,Rho-kinase,Rock-II,Rock2,Rock2m	Rho-associated coiled-coil containing protein kinase 2
Rora	NM_013446.1	9530021D13RIK,MGD-MRK-14383,MGD-MRK-26101,MGI:2442931,MGI:2670426,MGI:3054678,Nr1f1,RAR-related orphan receptor alpha,RIKEN cDNA 9530021D13 gene,Rora,Tennessee Mouse Genome Consortium 26,neuroscience mutagenesis facility, 267,mtm267;ag:taggerer,tmc26	RAR-related orphan receptor alpha
Rps27a	NM_024277.2	061000614RIK,RIKEN cDNA 061000614 gene,Rps27a,ribosomal protein S27A	ribosomal protein S27A
Rps6ka2	NM_011299.4	90KDa,D17Wsu134e,DNA segment, Chr 17, Wayne State University 134, expressed,MGD-MRK-35693,MGI:107228,MGI:1098261,Rps6ka-rs1,Rps6ka2,Rsk3,p90rsk,pp90rsk,ribosomal protein S6 kinase, polypeptide 2,ribosomal protein S6 kinase, related sequence 1	ribosomal protein S6 kinase, polypeptide 2
Rps6kb2	NM_021485.2	Rps6kb2,S6K2,ribosomal protein S6 kinase, polypeptide 2	ribosomal protein S6 kinase, polypeptide 2
S100a4	NM_011311.2	18A2,42a,CAPL,CapL,MGD-MRK-12597,MGD-MRK-1758,MGI:88267,MGI:97182,Mts1,PeI98,S100 calcium binding protein A4,S100a4,calcium binding protein, placental,calcium-binding protein, placental,calvasculin,malignant transformation suppression 1,metastasin,pk9a	S100 calcium binding protein A4
Saa1/2	NM_009117.4	Saa-1 and Saa-2	serum amyloid A 1/2
Scd1	NM_009127.3	AA389638,AI265570,MGD-MRK-3014,MGD-MRK-14305,MGD-MRK-14307,MGI:2147455,MGI:2147495,MGI:87858,Scd1,Scd1,ab,abieba,expressed sequence AA389638,expressed sequence AI265570,stearyl-CoA desaturase,stearyl-Coenzyme A desaturase 1,stearyl coenzyme A desaturase 1	stearyl-Coenzyme A desaturase 1
Scd2	NM_009128.2	MGD-MRK-14306,MGD-MRK-14308,MGI:3584399,Scd2,Scd2,stearyl-Coenzyme A desaturase 2,stearyl-coenzyme A desaturase 2,2,swerty,swy	stearyl-Coenzyme A desaturase 2
Scd3	NM_01450.2	493051361RIK,MGI:1923115,RIKEN cDNA 493051361 gene,Scd3,stearyl-coenzyme A desaturase 3	stearyl-coenzyme A desaturase 3
Scd4	NM_183216.3	MGC:48154,Scd4,stearyl-coenzyme A desaturase 4	stearyl-coenzyme A desaturase 4
Scn5	NM_009132.2	AW54522,MGI:2145036,Scin,adeseverin,expressed sequence AW54522,scinderin	scinderin
Scd3	NM_011520.3	MGC:65603,MGC:69616,MGD-MRK-14688,MGI:98465,Sdc3,Synd3,mkIAA0468,syn-3,syndecan 3	syndecan 3
Sec24c	NM_001168273.1	2610204K3RIK,RIKEN cDNA 2610204K3 gene,Sec24 related gene family, member C (S. cerevisiae),Sec24c,mkIAA0070	Sec24 related gene family, member C (S. cerevisiae)
Sec61b	NM_024171.2	119006523RIK,AI326121,AW122942,MGI:2145216,MGI:2145417,RIKEN cDNA 119006523 gene,Sec61 beta subunit,Sec61b,expressed sequence AI326121,expressed sequence AW122942	Sec61 beta subunit
Seh1	NM_001039088.1	2610007A16RIK,AW540070,MGI:2147368,RIKEN cDNA 2610007A16 gene,SEH1-like (S. cerevisiae),Seh1,expressed sequence AW540070	SEH1-like (S. cerevisiae)
Selenos	NM_024439.3	150001107RIK,C78786-N-4J-47,H4,H47,MGD-MRK-10460,MGD-MRK-10468,MGD-MRK-10590,MGI:1916234,MGI:2142327,RIKEN cDNA 150001107 gene,Selenos,Sepls1,VCP-interacting membrane protein,Vmp,expressed sequence C78786,histocompatibility 47,histocompatibility 47,selenoprotein S	selenoprotein S
Sem1	NM_009169.1	DS51,MGD-MRK-36045,MGD-MRK-38283,SEM1, 26S proteasome complex subunit,Sem1,Shfg1,Shfg,Shfm1,split hand/foot deleted gene 1,split hand/foot gene,split hand/foot malformation (ectrodactyly) type 1	SEM1, 26S proteasome complex subunit

Serpine1	NM_008871.2	MGD-MRK-13344,PAI-1,PAI1,Planh1,Serpine1,plasminogen activator inhibitor, type I,serine (or cysteine) peptidase inhibitor, clade E, member 1 AI195227,EPIC-1,MGD-MRK-23945,MGD-MRK-37117,MGI:133081,MGI:2144089,Psid,PsidF,SdF3,Serp1n1,expressed sequence AI195227,pigment epithelium derived factor,pigment epithelium-derived factor,pigment epithelium-derived factor-like,serine (or cysteine) peptidase inhibitor, clade F, member 1,stromal cell derived factor 3	serine (or cysteine) peptidase inhibitor, clade E, member 1
Serp1n1	NM_011340.3	C1 inhibitor,C1INH,C1nh,Serp1n1,complement component 1 inhibitor,serine (or cysteine) peptidase inhibitor, clade G, member 1	serine (or cysteine) peptidase inhibitor, clade F, member 1
Serpin1	NM_009776.3	Cbp1,Cbp2,Hsp47,K6,MGD-MRK-10956,MGD-MRK-1786,MGD-MRK-39501,MGI:109502,SerpinH1,SerpinH2,collagen binding protein 1,collagen binding protein 2,collin,gp46,heat shock protein 47 kDa,serine (or cysteine) peptidase inhibitor, clade H, member 1,serine (or cysteine) protease inhibitor, clade H, member 2	serine (or cysteine) peptidase inhibitor, clade G, member 1
Serpin1a	NM_009825.2	Duncan disease homolog,SAP,SH2 domain containing 1A,SH2d1a	serine (or cysteine) peptidase inhibitor, clade H, member 1
Sh2d1a	NR_132588.1	Siglec5,Siglec5.mSiglec-F,sialic acid binding Ig-like lectin 5,sialic acid binding Ig-like lectin F	SH2 domain containing 1A
SiglecF	NM_145581.1	181005701Rik,A042833,MGI:1523775,MGI:2147193,MGI:2182806,RIKEN cDNA 1810057E01 gene,SIL1,endoplasmic reticulum chaperone SIL1 homolog (S. cerevisiae),expressed sequence	sialic acid binding Ig-like lectin F
SI1	NM_030749.1	A042833,wooy,wocz	endoplasmic reticulum chaperone SIL1 homolog (S. cerevisiae)
Sirt1	NM_019812.2	AA673258,MGI:2143506,Sir2,Sir2alpha,Sirt1,expressed sequence AA673258,sirtuin 1	sirtuin 1
		231001202Rik,2610001A11Rik,AA062172,AA589460,BC004088,MGC:8300,MGD-MRK-14428,MGI:1915543,MGI:1910864,MGI:2136877,MGI:2140114,MGI:2140167,RIKEN cDNA 231001202 gene,RIKEN cDNA 2610001A11 gene,Sik1,cDNA sequence BC004088,expressed sequence AA062172,expressed sequence AA589460,sik1 sarcoma viral oncogene homolog (avian)	sk1 sarcoma viral oncogene homolog (avian)
Ski	NM_011385.2	2610043E2Rik,2610202H2Rik,MGD-MRK-24460,MGI:1917574,MGI:1923841,RIKEN cDNA 2610043E2A gene,RIKEN cDNA 2610202H23 gene,S-phase kinase-associated protein	sk1 sarcoma viral oncogene homolog (avian)
Skp1a	NM_011543.4	IA_Skp1a,Tceb1,p19Skp1,transcription elongation factor B (SII), polypeptide 1-like	S-phase kinase-associated protein 1A
Skp2	NM_013787.2	493050040Rik,FKXL1,MGI:1922284,RIKEN cDNA 493050040A gene,S-phase kinase-associated protein 2 (p45),Skp2	S-phase kinase-associated protein 2 (p45)
Slc25a10	NM_013770.1	Dic,MGI:1351621,Slc25a10,dicarboxylate ion carrier,solute carrier family 25 (mitochondrial carrier, dicarboxylate transporter), member 10	solute carrier family 25 (mitochondrial carrier, dicarboxylate transporter), member 10
Slc25a13	NM_001177572.1	A1785475,Ctrn,MGI:2141468,Slc25a13,ctrin,expressed sequence A1785475,solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 13	solute carrier family 25 (mitochondrial carrier, adenine nucleotide translocator), member 13
Slc2a2	NM_031197.2	A1266973,Gluc-2,Gluc-2,MGD-MRK-10156,MGD-MRK-10150,MGI:2139657,MGI:95756,Slc2a2,expressed sequence A1266973,glucose transporter 2, liver,liver-type glucose transporter,solute carrier family 2 (facilitated glucose transporter), member 2	solute carrier family 2 (facilitated glucose transporter), member 2
Slc37a4	NM_008063.2	100043178,G6P1,MGI:3782457,Slc37a4,glucose-6-phosphatase, transport protein 1,predicted gene,100043178,solute carrier family 37 (glucose-6-phosphate transporter), member 4	solute carrier family 37 (glucose-6-phosphate transporter), member 4
Smad2	NM_010754.4	7120426M23Rik,MAD homolog 2, (Drosophila),MGD-MRK-37087,MGI:2442937,Madh2,Madr2,RIKEN cDNA 7120426M23 gene,SMAD family member 2,Smad2,Smad2	SMAD family member 2
Smad3	NM_016769.3	AU022421,MGI:2143216,Madh3,SMAD family member 3,Smad3,Smad3,expressed sequence AU022421 AW743858,D18Wu70e,DNA segment, Chr 18, Wayne State University 70, expressed,DP4,Dpca,MGD-MRK-33955,MGI:1062638,MGI:2147379,Madh4,SMAD family member 4,Smad4,Smad4,expressed sequence AW743858	SMAD family member 3
Smad4	NM_005540.2	MG1:5316754,Madh6,Mutant line 390,SMAD family member 6,Smad6,Smad6,b2b390C1o	SMAD family member 4
Smad6	NM_008542.2	593040504Rik,RIKEN cDNA 593040504 gene,SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 2,Smarrc2	SMAD family member 6
Smarrc2	NM_00114096.1	4930431E0Rik,RIKEN cDNA 4930431E0 gene,SMAD specific E3 ubiquitin protein ligase 1,Smurf1	SMAD family member 2
Smurf1	NM_001038627.1	Slug,Slug,Smad2,Smad2,Slug, chicken homolog,snail family zinc finger 2	SMAD specific E3 ubiquitin protein ligase 1
Smad2	NM_014415.2	843024011Rik,CuZn-ZnF superoxide dismutase,Cu,Zn-SOD,CuZnSOD,1p01,MGD-MRK-11444,MGD-MRK-11444,MGD-MRK-14483,MGD-MRK-14485,MGI:2441859,RIKEN cDNA 843024011 gene,SODC,Sod-1,Sod1,indophenol oxidase,superoxide dismutase 1, soluble	snail family zinc finger 2
Sod1	NM_014344.1	2310065E01Rik,9530001P1Srik,CAP,MGI:1922938,MGI:2443814,Ponsin,RIKEN cDNA 2310065E01 gene,RIKEN cDNA 9530001P1S gene,SH3 domain protein 5,SH3S,Sorbs1,Cbl-associated protein,MAA1226,sorbin and SH3 domain containing 1	superoxide dismutase 1, soluble
Sorbs1	NM_009166.3	4430401P03Rik,A449023,MGD-MRK-14489,MGI:1918028,MGI:2146826,RIKEN cDNA 4430401P03 gene,SOS Ras/Rac guanine nucleotide exchange factor 1,Sos1,expressed sequence A449023	sorbin and SH3 domain containing 1
Sos1	NM_009231.2	1110003E12Rik,AA450830,A1845540,MGD-MRK-14512,MGI:1915735,MGI:2146073,MGI:3034478,RIKEN cDNA 1110003E12 gene,Sp1,Sp1-1,expressed sequence AA450830,expressed sequence A1845540,trans-acting transcription factor 1	SOS Ras/Rac guanine nucleotide exchange factor 1
Sp1	NM_013872.2	D130027E1Rik,MGI:2444244,RIKEN cDNA D130027E1 gene,Sp3,trans-acting transcription factor 3	trans-acting transcription factor 1
Sp3	NM_001018042.3	Sp1-8,Sp1-8 transcription factor (Sp1-1/PU 1 related),Spb	trans-acting transcription factor 3
Spb	NM_019866.1	A1315626,MGI:2144110,Pcf11,Spop,TEF2,expressed sequence A1315626,speckle-type POZ protein	Sp1-8 transcription factor (Sp1-1/PU 1 related)
Spop	NM_025287.2	cDNA 4921517ND4Rik,AU014935,8B233739,E430033K04Rik,MGI:2139149,MGI:2139449,MGI:2444012,RIKEN cDNA 4921517ND4 gene,RIKEN cDNA E430033K04 gene,Spop,expressed sequence AU014935,expressed sequence 8B233739,speckle-type POZ protein-like	speckle-type POZ protein
Spopl	NM_001165998.1	Zar,AA4kA bone phosphoprotein,AA060535,A790405,Ap1-1,BNSP,ETA-1,EtA,MGD-MRK-13036,MGD-MRK-13037,MGD-MRK-1359,MGD-MRK-13878,MGD-MRK-14544,MGD-MRK-14545,MGD-MRK-9656,MGI:2140792,MGI:2140963,OP,Opn,Opnl,Ric,Sp-1,Sp1,activation protein lymphocyte 1, bone sialoprotein 1,early T lymphocyte activation,expressed sequence AA060535,expressed sequence A790405,minopontin,osteopontin,osteopontin-like protein,rickettsia tsutsugamushi resistance,secreted phosphoprotein 1	speckle-type POZ protein-like
Spp1	NM_009263.3	AW259666,MGD-MRK-14556,MGI:2139334,Rous sarcoma oncogene,Src,expressed sequence	secreted phosphoprotein 1
Src	NM_001023595.2	AW259666,pp60c-src	Rous sarcoma oncogene
Srebf1	NM_011480.1	ADD-1,MGD-MRK-36180,SREBP-1,SREBP-1a,SREBP-1c,SREBP1c,Srebf1,bHLHd1,sterol regulatory element binding transcription factor 1	sterol regulatory element binding transcription factor 1
Sr2	NM_025448.3	1500032E0Rik,A1315033,AU020133,MGI:2139666,MGI:2139881,RIKEN cDNA 1500032E0 gene,Sr2,TRAPbeta,expressed sequence A1315033,expressed sequence AU020133,signal sequence receptor, beta	signal sequence receptor, beta
Sr4	NM_009279.2	AW743063,C78062,MGI:2148027,MGI:2148055,Sr4,Trap,expressed sequence AW743063,expressed sequence C78062,signal sequence receptor, delta	signal sequence receptor, delta
Stat1	NM_009283.3	201000502Rik,AA408197,MGD-MRK-23925,MGI:1923977,MGI:2138078,RIKEN cDNA 201000502 gene,Stat1,expressed sequence AA408197,signal transducer and activator of transcription 1	signal transducer and activator of transcription 1
Stat3	NM_213659.2	1110034C02Rik,AW109958,Aprf,MGD-MRK-23900,MGI:1915983,MGI:2144497,RIKEN cDNA 1110034C02 gene,Stat3,expressed sequence AW109958,signal transducer and activator of transcription 3	signal transducer and activator of transcription 3
Stat5a	NM_001164062.1	AA959963,MGD-MRK-23874,MGI:2144052,STAT5,Stat5a,expressed sequence AA959963,signal transducer and activator of transcription 5A	signal transducer and activator of transcription 5A
Stat5b	NM_00113563.1	MGD-MRK-23873,Stat5b,signal transducer and activator of transcription 5B	signal transducer and activator of transcription 5B
Stk4	NM_021420.3	A144739,AU020804,Kas-2,MGI:2103255,MGI:2138944,MGI:2139225,MGI:2138444,Yeast Sp1,Ste20-related kinase 3 (S. cerevisiae),Yak3,expressed sequence A144739,expressed sequence AU020804,serine/threonine kinase 4,sterile 20-like kinase 1	serine/threonine kinase 4
Sufu	NM_001025391.1	2810026P04Rik,MGI:1919902,MGI:5313707,Mutant line 273,RIKEN cDNA 2810026F04 gene,SUFU negative regulator of hedgehog signaling	SUFU negative regulator of hedgehog signaling
Sugt1	NM_026474.5	2410174K12Rik,RIKEN cDNA 2410174K12 gene,SGT1,SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae),Sugt1	SGT1, suppressor of G2 allele of SKP1 (S. cerevisiae)
Syk	NM_001198977.1	MGD-MRK-16292,Syk,Sykb,spleen tyrosine kinase	spleen tyrosine kinase
Tbc1d4	NM_001081278.2	5930406J04Rik,AS160,AV295684,MGI:2442592,MGI:3034398,RIKEN cDNA 5930406J04 gene,TBC1 domain family, member 4,Tbc1d4,expressed sequence AV295684	TBC1 domain family, member 4
Tbl1x1	NM_030732.3	803049902Rik,AK6307653Rik,AKS39987,C21,C23080912Rik,DC42,rsnl,MGI:2139993,MGI:2444715,RIKE n cDNA 803049902 gene,RIKEN cDNA AK6307653 gene,RIKEN cDNA C23080912 gene,TBL1X1,Tbl1x1,expressed sequence AKS39987,transducin (beta)-like IX-linked receptor 1	transducin (beta)-like IX-linked receptor 1
Tblx2	NM_019507.2	Tbet,T-box 21,TBT1,Tbet,Tbmx2,Tbx21	T-box 21
Tcf7l1	NM_001079822.2	TCF3,Tcf7l1,transcription factor 3,transcription factor 7 like 1 (T cell specific, HMG box),transcription factor 7-like 1	transcription factor 7 like 1 (T cell specific, HMG box)
Tcf7l2	NM_001142924.1	TCF4,TCF4c,TC4,TC4,TCF7l2,mTcf-4B,mTcf-4E,transcription factor 7 like 2, T cell specific, HMG box	transcription factor 7 like 2, T cell specific, HMG box
Tcl1	NM_009337.3	T cell lymphoma breakpoint 1,Tcl1	T cell lymphoma breakpoint 1
Tek	NM_013690.2	AA517024,Cg202b,Hyk,MGD-MRK-14991,MGD-MRK-16702,MGD-MRK-18601,MGI:2140157,TEK receptor tyrosine kinase,Tek,Tie2,adhesion structures linked tyrosine kinase,expressed sequence AA517024,tie-2,tyrosine kinase receptor 2	TEK receptor tyrosine kinase
Tgfb1	NM_011577.1	MGD-MRK-15063,MGD-MRK-15064,MGD-MRK-15067,TGF-beta 1,TGF-beta1,TGFBeta1,Tgfb1,Tgfb1-1,Tgfb1,transforming growth factor, beta 1	transforming growth factor, beta 1
Tgfb1l1	NM_0010289550.1	AA53,MGD-MRK-19692,TSC-5,Tgfb1,Itic-5,transforming growth factor beta 1 induced transcript 1	transforming growth factor beta 1 induced transcript 1
Tgfb1r1	NM_009370.2	ALK5,AU01791,Alk-5,MGD-MRK-15070,MGI:2140434,TbetaR1,TbetaR1,Tgfb1r1,expressed sequence AU01791,transforming growth factor, beta receptor I	transforming growth factor beta 1 induced transcript 1
Tgfb2	NM_009371.2	1110029I5Rik,AU042018,MGD-MRK-15071,MGI:1923554,MGI:2143233,RIKEN cDNA 1110029I5 gene,TBR-II,TbetaR-II,TbetaR-II,Tgfb2,expressed sequence AU042018,transforming growth factor, beta receptor II	transforming growth factor, beta receptor II
Tbhs1	NM_011580.3	MGD-MRK-15083,MGD-MRK-15086,TSP-1,TSP1,Tbhs-1,Tbhs1,Tbhs1,thrombospondin 1	thrombospondin 1
Tbhs2	NM_011581.2	MGD-MRK-15084,MGD-MRK-15087,TSP-2,Tbhs-2,Tbhs2,Thrombospondin-2,Thrombospondin 2	thrombospondin 2
Tbhs3	NM_013691.2	MGD-MRK-15085,MGD-MRK-15088,TSP-3,Tbhs-3,Tbhs3,Thrombospondin 3	thrombospondin 3
Timp1	NM_011593.2	C1g,MGC:7143,MGD-MRK-15110,MGD-MRK-2015,TIMP-1,Timp1,tissue inhibitor of metalloproteinase 1	tissue inhibitor of metalloproteinase 1
Timp2	NM_011594.3	D11Bwg1104e,DNA segment, Chr 11, Brigham & Women's Genetics 1104 expressed,MGD-MRK-15111,MGD-MRK-15113,MGD-MRK-34056,MGI:106364,TIMP-2,Timp2,Timp2,tissue inhibitor of metalloproteinase 2	tissue inhibitor of metalloproteinase 2
Tjp1	NM_009386.1	MGD-MRK-15119,Tjp1,ZO-1,ZO1,tight junction protein 1	tight junction protein 1
Tjp2	NM_011597.3	Tjp2,C2-2,tight junction protein 2	tight junction protein 2
Tln1	NM_011602.5	Tln1,talin 1	talin 1
Tlr1	NM_030682.1	Tlr1,toll-like receptor 1	toll-like receptor 1
Tlr2	NM_011905.2	Ly105,Tlr2,toll-like receptor 2	toll-like receptor 2
Tlr4	NM_021297.2	Lps,MGD-MRK-11879,MGD-MRK-26042,RA5-like, family 2, locus 8,Ras1d-8,Tlr4,lipopolysaccharide response,toll-like receptor 4	toll-like receptor 4
Tlr6	NM_011604.3	Tlr6,toll-like receptor 6	toll-like receptor 6
Tlr8	NM_133212.2	Tlr8,toll-like receptor 8	toll-like receptor 8
Tms6f2	NM_181540.3	Tms6f2,transmembrane 6 superfamily member 2	transmembrane 6 superfamily member 2
Tnf	NM_013693.2	Dif,MGD-MRK-15151,MGD-MRK-28090,TNF alpha,TNF-alpha,TNFAlfa,Tnf,Tnfa,Tnfb,tumor necrosis factor,tumor necrosis factor, alpha,tumor necrosis factor-alpha	tumor necrosis factor
Tnfrsf17	NM_011608.1	BCM,BCMA,Tnfrsf13,Tnfrsf13a,Tnfrsf17,tumor necrosis factor receptor superfamily, member 17	tumor necrosis factor receptor superfamily, member 17

Tnfrsf10	NM_009425.2	A330042121RIK, A448571, APO-2L, MGD-MRK-35883, MGI:2139709, RIKEN cDNA A330042121 gene, TNF-related apoptosis inducing ligand, Tnfrsf10, Trail, expressed sequence A448571, tumor necrosis factor (ligand) superfamily, member 10	tumor necrosis factor (ligand) superfamily, member 10
Tnfrsf14	NM_019418.2	HKEM-1, LIGHT, TNFsf14, tumor necrosis factor (ligand) superfamily, member 14	tumor necrosis factor (ligand) superfamily, member 14
Tnn	NM_177839.2	Tnn, Tnn, transgenic N, tenascin-W	tenascin N
Tpr	NM_133780.2	2610029M07RIK, C77892, MGI:2138665, RIKEN cDNA 2610029M07 gene, Tpr, expressed sequence C77892, translocated promoter region, nuclear basket protein	translocated promoter region, nuclear basket protein
Tpsab1	NM_031187.4	MGD-MRK-12149, MGD-MRK-12157, MMCP-7, Mcp-7, Mcpt7, Tpsab1, mast cell protease 7, trypsin alpha/beta 1	trypsin alpha/beta 1
Tpsb2	NM_010781.3	AV011504, MGD-MRK-12148, MGD-MRK-12156, MGI:2147011, MMCP-6, Mcp-6, Mcp6, Mcpt6, Tpsb2, expressed sequence AV011504, mast cell protease 6, trypsin beta 2	trypsin beta 2
Tradd	NM_001031161.2	9130005N23RIK, A930854, MGD-MRK-38244, MGI:1918859, MGI:2144247, RIKEN cDNA 9130005N23 gene, TNFRSF1A-associated via death domain, Tradd, expressed sequence A930854	TNFRSF1A-associated via death domain
Traf2	NM_009422.2	A1325259, MGD-MRK-18656, MGI:2138907, TNF receptor-associated factor 2, Traf2, expressed sequence A1325259	TNF receptor-associated factor 2
Traf6	NM_009424.2	231000317RIK, A851288, C630032O2ORIK, MGD-MRK-37109, MGI:1919554, MGI:2139081, RIKEN cDNA 231000317 gene, RIKEN cDNA C630032O2O gene, TNF receptor-associated factor 6, Traf6, expressed sequence A851288	TNF receptor-associated factor 6
Trat1	NM_189297.3	C030046M14RIK, RIKEN cDNA C030046M14 gene, T cell receptor associated transmembrane adaptor 1, T-cell receptor interacting molecule, Trtm, Tra1, Trm	T cell receptor associated transmembrane adaptor 1
Trtb3	NM_175093.2	H02, Rukp, S0P3, T03, Trtb3, induced in fatty liver dystrophy 2, tribbles pseudokinase 3	tribbles pseudokinase 3
Trrap	NM_001081362.1	A1481500, MGI:2140918, Trrap, expressed sequence A1481500, transactivation/transformation domain associated protein, transformation/transcription domain-associated protein	transformation/transcription domain-associated protein
Ttn	NM_011652.3	1100001C23RIK, Z310036G12RIK, Z310057K23RIK, Z310074I51RIK, AF006999, AV006427, D330041119RIK, D830007G01RIK, EST, AF006999, I56, MGD-MRK-12167, MGD-MRK-15296, MGI:154712, MGI:1914106, MGI:1915313, MGI:1919172, MGI:1924011, MGI:2139233, MGI:2159019, MGI:2442128, MGI:2443159, MGI:96950, RIKEN cDNA 1100001C23 gene, RIKEN cDNA 2310036G12 gene, RIKEN cDNA 2310057K23 gene, RIKEN cDNA 2310074I51 gene, RIKEN cDNA D330041119 gene, RIKEN cDNA D830007G01 gene, Ttn, connectin, expressed sequence AV006427, mdm, muscular dystrophy with myositis, shrunken head, titin	titin
Txn1	NM_011660.3	AW550880, MGD-MRK-15309, MGI:2140594, Txn1, Txn1, expressed sequence AW550880, thioredoxin 1	thioredoxin 1
Txn2	NM_011913.5	231000611RIK, A1788873, MGI:1915214, MGI:2146059, RIKEN cDNA 231000611 gene, Txn2, Txn2, expressed sequence A1788873, thioredoxin 2	thioredoxin 2
Tyndc5	NM_145367.3	AI022641, ERPA6, PC-TRP, Tyndc5, expressed sequence AI022641, thioredoxin domain containing 5 D8Ert21e, DNA segment, Chr 8, ERATO Doi 21, expressed, MGD-MRK-15325, MGI:1098796, Uba52, ubiquitin-A-52 residue ribosomal protein fusion product 1	thioredoxin domain containing 5
Uba52	NM_019883.3	1500034D3ORIK, MGI:1919677, RIKEN cDNA 1500034D03 gene, Uba52a, ubc4, ubiquitin-conjugating enzyme E2D 2A	ubiquitin-conjugating enzyme E2D 2A
Uba2a	NM_019121.1	1500026117RIK, AI022654, BB101821, MGI:2143895, MGI:2144921, UBC13, Uba2n, expressed sequence AI022654, expressed sequence BB101821, ubiquitin-conjugating enzyme E2N	ubiquitin-conjugating enzyme E2N
Uba2n	NM_080560.3	4930551119RIK, 4933406G05RIK, AU014668, D4bwg0977e, DNA segment, Chr 4, Brigham & Women's Genetics 0973, expressed, MGD-MRK-34203, MGI:1865059, MGI:1921672, MGI:1922586, MGI:2140420, RIKEN cDNA 4930551119 gene, RIKEN cDNA 4933406G05 gene, UFD2, UFD2a, Uba4b, Ufd2p, expressed sequence AU014668, mKAA0684, ubiquitination factor E4B	ubiquitination factor E4B
Ube4b	NM_022022.3	2210415M14RIK, MGC:35665, QP-C, RIKEN cDNA 2210415M14 gene, Uqcrb, ubiquinol-cytochrome c reductase binding protein	ubiquinol-cytochrome c reductase binding protein
Uqcrb	NM_026219.1	443040214RIK, A875505, MGI:2145312, RIKEN cDNA 4430402G14 gene, Uqcrf1, expressed sequence A875505, ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1	ubiquinol-cytochrome c reductase, Rieske iron-sulfur polypeptide 1
Uqcrf1	NM_025710.2	2210416I04RIK, Z31002111ORIK, Z610041P16RIK, MGI:1919620, MGI:1925581, RIKEN cDNA 2210416I04 gene, RIKEN cDNA 2310021110 gene, RIKEN cDNA 2610041P16 gene, Uqcrh, ubiquinol-cytochrome c reductase hinge protein	ubiquinol-cytochrome c reductase hinge protein
Uqcrh	NM_025641.3	AU041171, MGI:2141586, Vamp8, endobrevin, expressed sequence AU041171, vesicle-associated membrane protein 8	vesicle-associated membrane protein 8
Vamp8	NM_016794.3	MGD-MRK-15381, Vav1, vav1 oncogene	vav 1 oncogene
Vav1	NM_011691.4	CD106, MGD-MRK-15384, MGD-MRK-15385, Vcam-1, Vcam1, vascular cell adhesion molecule 1	vascular cell adhesion molecule 1
Vcam1	NM_011693.2	MGD-MRK-24046, VEGF-A, VEGF120, VEGF164, VEGF188, VPF, Vegf, Vegfa, vascular endothelial growth factor, vascular endothelial growth factor A	vascular endothelial growth factor A
Vegfa	NM_001025250.3	MGD-MRK-33890, VEGF-B, Vegfb, Vrf, vascular endothelial growth factor B, vascular endothelial growth factor related protein	vascular endothelial growth factor B
Vegfb	NM_011697.3	MGD-MRK-15395, Vim, vimentin	vimentin
Vim	NM_011701.4	MGD-MRK-32098, MGI:2144716, U42471, Was, Wasp, Wiskott-Aldrich syndrome, Wiskott-Aldrich syndrome protein, expressed sequence U42471	Wiskott-Aldrich syndrome
Was	NM_009515.2	AA408228, AU017197, BC037006, Kibra, MGC:47054, MGI:2143978, MGI:2144380, WW, C2 and coiled-coil domain containing 1, Wwc1, cDNA sequence BC037006, expressed sequence AA408228, expressed sequence AU017197	WW, C2 and coiled-coil domain containing 1
Wwc1	NM_170779.1	XIAP associated factor 1, Xaf1	XIAP associated factor 1
Xaf1	NM_001037713.3	D11Ert39e, DNA segment, Chr 11, ERATO Doi 39, expressed, MGD-MRK-15468, MGI:1098709, TREB-5, TREB5, X-box binding protein 1, XBP-1, Xbp1	X-box binding protein 1
Xbp1	NM_0113842.2	A1661682, ATAC, LTN, lptn, MGD-MRK-26027, MGI:2138317, SCM-1, SCM-1a, Sycy1, Xcl1, chemokine (C motif) ligand 1, expressed sequence A1661682, lymphotactin, small inducible cytokine subfamily C, member 1 (lymphotactin)	chemokine (C motif) ligand 1
Xcl1	NM_008510.1	1110015C02RIK, Alpa, Aip3, Birc4, IAP3, IAP-1, MGD-MRK-36144, MGI:1922024, RIKEN cDNA 1110015C02 gene, X-linked inhibitor of apoptosis, XIap, apoptosis inhibitor 3, apoptosis inhibitory protein A, baculoviral IAP repeat-containing 4	X-linked inhibitor of apoptosis
Xiap	NM_009688.2	130000317RIK, 14-3-3 beta, 14-3-3 beta, MGI:1914136, RIKEN cDNA 1300003C17 gene, Ywhab, tyrosine 3-monooxygenase/trypophan 5-monooxygenase activation protein, beta polypeptide	tyrosine 3-monooxygenase/trypophan 5-monooxygenase activation protein, beta polypeptide
Ywhab	NM_018753.6	14-3-3 epsilon, AU019196, MGI:2144388, Ywhae, expressed sequence AU019196, tyrosine 3-monooxygenase/trypophan 5-monooxygenase activation protein, epsilon polypeptide	tyrosine 3-monooxygenase/trypophan 5-monooxygenase activation protein, epsilon polypeptide
Ywhae	NM_009536.4	14-3-3 gamma, D7Bwg1348e, DNA segment, Chr 7, Brigham & Women's Genetics 1348, expressed, MGD-MRK-34146, MGD-MRK-37146, MGI:106452, Ywhag, tyrosine 3-monooxygenase/trypophan 5-monooxygenase activation protein, gamma polypeptide	tyrosine 3-monooxygenase/trypophan 5-monooxygenase activation protein, gamma polypeptide
Ywhag	NM_018871.2	14-3-3 tau, 14-3-3 theta, 2700028P07RIK, AA409740, AU021156, MGI:1924055, MGI:2144732, MGI:2144953, MGI:2145131, R7469, O, RIKEN cDNA 2700028P07 gene, Ywhaq, expressed sequence AA409740, expressed sequence AU021156, expressed sequence R74690, tyrosine 3-monooxygenase/trypophan 5-monooxygenase activation protein theta	tyrosine 3-monooxygenase/trypophan 5-monooxygenase activation protein theta
Ywhaq	NM_011739.3	A035632, mKAA0305, zinc finger, FYVE domain containing 16	zinc finger, FYVE domain containing 16
Zfve16	NM_173392.4	2600017P15RIK, Acad9, C630012L17RIK, MGI:2444674, NP0002, RIKEN cDNA 2600017P15 gene, RIKEN cDNA C630012L17 gene, acyl-Coenzyme A dehydrogenase family, member 9	acyl-Coenzyme A dehydrogenase family, member 9
Acad9	NM_172678.3	9130011E15RIK, A1431055, AW050122, Armh3, MGI:2147534, MGI:2147696, RIKEN cDNA 9130011E15 gene, armadillo-like helical domain containing 3, expressed sequence A1431055, expressed sequence AW050122	armadillo-like helical domain containing 3
Armh3	NM_198296.2	2600001P13RIK, CCR4-NOT transcription complex, subunit 10, Cnot10, RIKEN cDNA 2600001P13 gene	CCR4-NOT transcription complex, subunit 10
Cnot10	NM_153585.5	A1747421, Gur, Gus, Gus-r, Gus-s, Gus-t, Gus-u, Gusv, Gut, MGD-MRK-10333, MGD-MRK-10334, MGD-MRK-10335, MGD-MRK-10336, MGD-MRK-10337, MGD-MRK-14113, MGD-MRK-19421, MGD-MRK-19422, MGD-MRK-9912, MGI:2140959, MGI:59573, MGI:59574, MGI:59575, MGI:59576, adipose storage deficiency, asd, beta-glucuronidase regulator, beta-glucuronidase structural, beta-glucuronidase systemic regulator, beta-glucuronidase temporal, expressed sequence A1747421, g, glucuronidase, beta	glucuronidase, beta
Gusb	NM_010368.1	1110061O04RIK, AW553738, C76151, MGI:2141698, MGI:2141743, Mtmr14, RIKEN cDNA 1110061O04 gene, expressed sequence AW553738, expressed sequence C76151, myotubularin related protein 14	myotubularin related protein 14
Mtmr14	NM_026849.2	2210008P15RIK, S73055621RIK, MGI:1924449, NOP27, Nol7, RAR6-1, RIKEN cDNA 2210008P15 gene, RIKEN cDNA S73055621 gene, nucleolar protein 7	nucleolar protein 7
Nol7	NM_023554.2	Nubp1, nucleotide binding protein 1	nucleotide binding protein 1
Nubp1	NM_011955.2	MGD-MRK-13258, MGD-MRK-13266, Pgk-1, Pgk1, phosphoglycerate kinase 1	phosphoglycerate kinase 1
Pgk1	NM_008828.2	Cphn, Cy-p18, Cypa, MGD-MRK-13591, MGD-MRK-2108, Ppia, cyclophilin, cyclophilin A, peptidylprolyl isomerase A	peptidylprolyl isomerase A
Ppia	NM_00907.1	3684, Arbp, MGD-MRK-1386, MGI:88066, Rplp0, acidic ribosomal phosphoprotein PO, ribosomal protein, large, PO	ribosomal protein, large, PO
Rplp0	NM_007475.5		