

Table S1. Four categories of genes separated by the epigenetic marks at their TSS (in bold)

H3K4me3^{lo}	1700102P08Rik	4930538K18Rik
H3K27me3^{lo}	1700109H08Rik	4930539E08Rik
0610010O12Rik	1700122O11Rik	4930544O15Rik
1110014N23Rik	1700123I01Rik	4930548H24Rik
1110017D15Rik	1700125H20Rik	4930550L24Rik
1110054O05Rik	1810012P15Rik	4930562C15Rik
1500015O10Rik	2010002M12Rik	4930562F07Rik
1600029D21Rik	2010107G12Rik	4930578C19Rik
1700001J03Rik	2010109I03Rik	4930579C15Rik
1700001K19Rik	2010111I01Rik	4930590J08Rik
1700001K23Rik	2210009G21Rik	4931417G12Rik
1700001P01Rik	2210010C04Rik	4931440F15Rik
1700003F12Rik	2210010C17Rik	4932412H11Rik
1700007I08Rik	2310003F16Rik	4932425I24Rik
1700007K09Rik	2310007L24Rik	4933402D24Rik
1700011E24Rik	2310014L17Rik	4933407L21Rik
1700012L04Rik	2310035K24Rik	4933408B17Rik
1700016C15Rik	2310042D19Rik	4933413G19Rik
1700016D06Rik	2310046K01Rik	4933422H20Rik
1700018L24Rik	2410076I21Rik	4933425L06Rik
1700019D03Rik	2510049J12Rik	4933425O20Rik
1700019L03Rik	2610028H24Rik	4933430H15Rik
1700019O17Rik	3200002M19Rik	4933437F05Rik
1700020A23Rik	3230401D17Rik	5430411K18Rik
1700020C07Rik	3830403N18Rik	5430427O19Rik
1700022I11Rik	4921501E09Rik	5430435G22Rik
1700026J04Rik	4921515J06Rik	5830411N06Rik
1700027A23Rik	4921523A10Rik	6030422M02Rik
1700028K03Rik	4930402F06Rik	6430531B16Rik
1700029H14Rik	4930404N11Rik	8430423G03Rik
1700029I15Rik	4930407I10Rik	9030617O03Rik
1700029J11Rik	4930417G10Rik	9130017N09Rik
1700029P11Rik	4930486L24Rik	A130010J15Rik
1700034I23Rik	4930503B20Rik	A3galt2
1700061G19Rik	4930511I11Rik	A430105I19Rik
1700061J05Rik	4930511M11Rik	A630001G21Rik
1700067P10Rik	4930526D03Rik	A830080D01Rik
1700094D03Rik		

A930005I04Rik
AA986860
Aanat
Abca9
Abcc9
Abcg2
Abcg8
Abra
Acacb
Acad11
Acat3
Accn3
Acer3
Acnat1
Acot10
Acot11
Acox2
Acpt
Acrbp
Acsbg2
Acsm3
Acta2
Actc1
Actg2
Actr1b
Acy3
Adam1a
Adam1b
Adam21
Adam30
Adam4
Adam6b
Adam8
Adamts13
Adamts16
Adamts20
Adamtsl2
Adcy10
Adcy4
Adcy7
Adig
Adipor2
Adora3

Adprh1
AF251705
Afp
Ager
Agmat
Agt
Agxt2l1
Al182371
Al428936
Aif1
Aifm3
Aim1
Aim1l
Aim2
Aipl1
Ak1
Ak7
Akap14
Akap2
Akap3
Akap8l
Akr1b8
Akr1c13
Alas2
Aldh1l1
Aldh3b1
Aldh8a1
Aldob
Aldoc
Alox5ap
Alpk3
Amd1
Amd2
Amhr2
Amica1
Amigo3
Ampd1
Amt
Amy1
Amz1
Angel2
Angpt4
Angptl1

Angptl3
Angptl7
Ankdd1b
Ankmy1
Ankrd22
Ankrd23
Ankrd61
Ankrd7
Anks1b
Anxa9
Aoc2
Aoc3
Aox3l1
Ap1m2
Aplnr
Apoa1
Apobec2
Apoc1
Apol10b
Apol6
Apol7b
Apol8
Apom
Apon
Aqp1
Aqp4
Aqp7
Aqr
Arap3
Arg1
Arhgap32
Arhgap40
Arhgef10l
Arhgef15
Arhgef18
Arhgef4
Arhgef5
Arhgef9
Arl11
Arl13a
Arl13b
Arl9
Arrdc5

<i>Asap1</i>	<i>Bcas1</i>	<i>Cacna1d</i>
<i>Asb14</i>	<i>Bckdhb</i>	<i>Cacng1</i>
<i>Asb2</i>	<i>Bcl2l14</i>	<i>Calml3</i>
<i>Asb4</i>	<i>Bcl2l15</i>	<i>Calml4</i>
<i>Asgr1</i>	<i>Bcl9l</i>	<i>Calr4</i>
<i>Ash1l</i>	<i>Bco2</i>	<i>Camk1</i>
<i>Ash2l</i>	<i>Bdh1</i>	<i>Camk1g</i>
<i>Aspa</i>	<i>Bdkrb1</i>	<i>Camk2a</i>
<i>Aspn</i>	<i>Bdp1</i>	<i>Camp</i>
<i>Atp11c</i>	<i>Best1</i>	<i>Capg</i>
<i>Atp1b4</i>	<i>Bfsp2</i>	<i>Capn11</i>
<i>Atp2a1</i>	<i>Bglap-rs1</i>	<i>Capn12</i>
<i>Atp4a</i>	<i>Bhlha15</i>	<i>Capn3</i>
<i>Atp4b</i>	<i>Blk</i>	<i>Capn9</i>
<i>Atp6v1b1</i>	<i>Blnk</i>	<i>Car5b</i>
<i>Atp6v1c2</i>	<i>Bloc1s2</i>	<i>Card14</i>
<i>Atp8a2</i>	<i>Bnipl</i>	<i>Card6</i>
<i>Atp8b4</i>	<i>Brd3</i>	<i>Card9</i>
<i>Avil</i>	<i>Brdt</i>	<i>Casc3</i>
<i>Avpr2</i>	<i>Bri3</i>	<i>Cask</i>
<i>AW112010</i>	<i>Brs3</i>	<i>Casp1</i>
<i>Awat2</i>	<i>Bst1</i>	<i>Casq1</i>
<i>Axl</i>	<i>Btbd16</i>	<i>Cass4</i>
<i>AY358078</i>	<i>Btla</i>	<i>Catsper3</i>
<i>B3galt2</i>	<i>Btnl2</i>	<i>Catsperg1</i>
<i>B3galt5</i>	<i>C030019I05Rik</i>	<i>Cbx7</i>
<i>B3gnt6</i>	<i>C030030A07Rik</i>	<i>Cc2d2a</i>
<i>B430306N03Rik</i>	<i>C130050O18Rik</i>	<i>Ccdc11</i>
<i>Baat</i>	<i>C1qb</i>	<i>Ccdc135</i>
<i>Baiap2l2</i>	<i>C1qtnf1</i>	<i>Ccdc144b</i>
<i>Baiap3</i>	<i>C1qtnf3</i>	<i>Ccdc154</i>
<i>Bank1</i>	<i>C1qtnf5</i>	<i>Ccdc162</i>
<i>BC017612</i>	<i>C1qtnf6</i>	<i>Ccdc27</i>
<i>BC018242</i>	<i>C1qtnf9</i>	<i>Ccdc63</i>
<i>BC018507</i>	<i>C1ra</i>	<i>Ccdc73</i>
<i>BC021614</i>	<i>C3</i>	<i>Ccdc76</i>
<i>BC021785</i>	<i>C330021F23Rik</i>	<i>Ccdc89</i>
<i>BC026585</i>	<i>C3ar1</i>	<i>Ccl17</i>
<i>BC032203</i>	<i>C4b</i>	<i>Ccl22</i>
<i>BC048507</i>	<i>C77080</i>	<i>Ccl4</i>
<i>BC048562</i>	<i>Cabp4</i>	<i>Ccl5</i>
<i>BC051019</i>	<i>Cacna1a</i>	<i>Ccl6</i>
<i>BC051070</i>	<i>Cacna1c</i>	<i>Ccnb1ip1</i>

<i>Ccr2</i>	<i>Ceacam2</i>	<i>Cnga1</i>
<i>Ccr5</i>	<i>Ceacam20</i>	<i>Cnksr1</i>
<i>Ccr8</i>	<i>Cela1</i>	<i>Cnot7</i>
<i>Ccrl1</i>	<i>Celf2</i>	<i>Cntnap2</i>
<i>Cct8l1</i>	<i>Cetn1</i>	<i>Coil</i>
<i>Cd101</i>	<i>Cfb</i>	<i>Col10a1</i>
<i>Cd160</i>	<i>Cfd</i>	<i>Col17a1</i>
<i>Cd163</i>	<i>Cfi</i>	<i>Col1a2</i>
<i>Cd163l1</i>	<i>Cfp</i>	<i>Col20a1</i>
<i>Cd177</i>	<i>Chd8</i>	<i>Col28a1</i>
<i>Cd19</i>	<i>Chgb</i>	<i>Col3a1</i>
<i>Cd200</i>	<i>Chml</i>	<i>Col4a6</i>
<i>Cd200r4</i>	<i>Chmp4b</i>	<i>Col6a6</i>
<i>Cd209a</i>	<i>Chrm4</i>	<i>Col9a3</i>
<i>Cd209d</i>	<i>Chrna10</i>	<i>Colec11</i>
<i>Cd209e</i>	<i>Chrna2</i>	<i>Colq</i>
<i>Cd226</i>	<i>Chrne</i>	<i>Cort</i>
<i>Cd244</i>	<i>Chst3</i>	<i>Cox4i2</i>
<i>Cd276</i>	<i>Chst4</i>	<i>Cox6a2</i>
<i>Cd28</i>	<i>Cib3</i>	<i>Cox7a1</i>
<i>Cd300lf</i>	<i>Ciita</i>	<i>Cp</i>
<i>Cd300lg</i>	<i>Cilp</i>	<i>Cpa3</i>
<i>Cd53</i>	<i>Ckm</i>	<i>Cpsf4l</i>
<i>Cd59a</i>	<i>Clcn1</i>	<i>Cpt1b</i>
<i>Cd5l</i>	<i>Cldn15</i>	<i>Cpt1c</i>
<i>Cd68</i>	<i>Cldn19</i>	<i>Cr2</i>
<i>Cd7</i>	<i>Clec10a</i>	<i>Crb1</i>
<i>Cd72</i>	<i>Clec12a</i>	<i>Creb3l3</i>
<i>Cd74</i>	<i>Clec1b</i>	<i>Creb3l4</i>
<i>Cd79a</i>	<i>Clec2e</i>	<i>Crim1</i>
<i>Cd80</i>	<i>Clec2g</i>	<i>Crtam</i>
<i>Cd93</i>	<i>Clec3b</i>	<i>Cryba1</i>
<i>Cdca7l</i>	<i>Clec4a1</i>	<i>Crybg3</i>
<i>Cdcp2</i>	<i>Clec4a2</i>	<i>Crygn</i>
<i>Cdh10</i>	<i>Clec4f</i>	<i>Csad</i>
<i>Cdh15</i>	<i>Clic3</i>	<i>Csdc2</i>
<i>Cdh23</i>	<i>Clip3</i>	<i>Csf2rb</i>
<i>Cdh5</i>	<i>Cln8</i>	<i>Csf3</i>
<i>Cdhr2</i>	<i>Clstn3</i>	<i>Csf3r</i>
<i>Cdk15</i>	<i>Cltb</i>	<i>Csl</i>
<i>Cdyl</i>	<i>Cluap1</i>	<i>Csmd1</i>
<i>Ceacam1</i>	<i>Cmb1</i>	<i>Csn2</i>
<i>Ceacam16</i>	<i>Cmya5</i>	<i>Csrp1</i>

<i>Cst6</i>	<i>Dbh</i>	<i>E230025N22Rik</i>
<i>Cst7</i>	<i>Dcaf12l1</i>	<i>Ecm1</i>
<i>Csta</i>	<i>Dcaf4</i>	<i>Ecm2</i>
<i>Ctf1</i>	<i>Dcun1d1</i>	<i>Ednra</i>
<i>Ctla2a</i>	<i>Dcun1d4</i>	<i>Efcab4b</i>
<i>Ctla4</i>	<i>Ddc</i>	<i>Efcab5</i>
<i>Ctnnb1</i>	<i>Dennd2c</i>	<i>Egfl7</i>
<i>Ctrl</i>	<i>Dennd4a</i>	<i>Egfl8</i>
<i>Ctsk</i>	<i>Dgcr6</i>	<i>Ehbp1</i>
<i>Ctss</i>	<i>Dgkd</i>	<i>Eif2c4</i>
<i>Ctsw</i>	<i>Dhx32</i>	<i>Eif4ebp3</i>
<i>Cubn</i>	<i>Dixdc1</i>	<i>Eif4g1</i>
<i>Cul4b</i>	<i>Dkk4</i>	<i>Elane</i>
<i>Cuzd1</i>	<i>Dlg2</i>	<i>Elavl3</i>
<i>Cx3cr1</i>	<i>Dmbt1</i>	<i>Elf5</i>
<i>Cxcl10</i>	<i>Dnahc17</i>	<i>Elmo3</i>
<i>Cxcr3</i>	<i>Dnahc9</i>	<i>Emr1</i>
<i>Cxcr5</i>	<i>Dnaja3</i>	<i>Emr4</i>
<i>Cxcr6</i>	<i>Dnajb13</i>	<i>Enthd1</i>
<i>Cyb561</i>	<i>Dnajb7</i>	<i>Epb4.2</i>
<i>Cybb</i>	<i>Dnajc13</i>	<i>Epgn</i>
<i>Cym</i>	<i>Dnajc25</i>	<i>Epha1</i>
<i>Cyp11a1</i>	<i>Dnalc4</i>	<i>Ephx1</i>
<i>Cyp26c1</i>	<i>Dnase1</i>	<i>Ephx3</i>
<i>Cyp2ab1</i>	<i>Dnase1l2</i>	<i>Eps15l1</i>
<i>Cyp2d26</i>	<i>Dnd1</i>	<i>Eps8</i>
<i>Cyp2j6</i>	<i>Dnmbp</i>	<i>Eps8l1</i>
<i>Cyp2t4</i>	<i>Dock9</i>	<i>Eps8l2</i>
<i>Cyp4f14</i>	<i>Dok3</i>	<i>Ermap</i>
<i>Cyp4f15</i>	<i>Dpep1</i>	<i>Ern2</i>
<i>Cyp4f16</i>	<i>Dpep2</i>	<i>Erp27</i>
<i>Cyp4f18</i>	<i>Dpm3</i>	<i>Espnl</i>
<i>Cysltr1</i>	<i>Dpy19l1</i>	<i>Ethe1</i>
<i>Cyth4</i>	<i>Drp2</i>	<i>Ets1</i>
<i>Cytip</i>	<i>Dsg1a</i>	<i>Evi2a</i>
<i>D130043K22Rik</i>	<i>Dupd1</i>	<i>Evi2b</i>
<i>D17H6S56E-3</i>	<i>Dus2l</i>	<i>Evi5</i>
<i>D1Pas1</i>	<i>Dusp10</i>	<i>Extl1</i>
<i>D630037F22Rik</i>	<i>Dusp18</i>	<i>Extl3</i>
<i>D630039A03Rik</i>	<i>Dusp27</i>	<i>F2</i>
<i>D630045J12Rik</i>	<i>Dynll2</i>	<i>F2rl2</i>
<i>Dab2</i>	<i>Dyrk4</i>	<i>F5</i>
<i>Dab2ip</i>	<i>E030002O03Rik</i>	<i>Fabp4</i>

<i>Fabp6</i>	<i>Fgd2</i>	<i>Ghrl</i>
<i>Fam107b</i>	<i>Fgd3</i>	<i>Gigyf1</i>
<i>Fam111a</i>	<i>Fgf1</i>	<i>Gimap3</i>
<i>Fam115c</i>	<i>Fgf22</i>	<i>Gimap4</i>
<i>Fam129c</i>	<i>Fgf23</i>	<i>Gimap5</i>
<i>Fam132a</i>	<i>Fgf7</i>	<i>Gimap7</i>
<i>Fam135a</i>	<i>Filip1</i>	<i>Gja10</i>
<i>Fam160a1</i>	<i>Filip1l</i>	<i>Gja6</i>
<i>Fam166a</i>	<i>Flrt1</i>	<i>Gk2</i>
<i>Fam166b</i>	<i>Flywch1</i>	<i>Glce</i>
<i>Fam171a1</i>	<i>Fmn1</i>	<i>Glipr1</i>
<i>Fam178b</i>	<i>Fndc1</i>	<i>Glra4</i>
<i>Fam183b</i>	<i>Folr4</i>	<i>Glt8d2</i>
<i>Fam193a</i>	<i>Foxi1</i>	<i>Gltscr1</i>
<i>Fam196b</i>	<i>Foxk2</i>	<i>Gna15</i>
<i>Fam198a</i>	<i>Foxn3</i>	<i>Gnb3</i>
<i>Fam23a</i>	<i>Foxp3</i>	<i>Gne</i>
<i>Fam24a</i>	<i>Fpgs</i>	<i>Gng2</i>
<i>Fam26d</i>	<i>Frmd7</i>	<i>Gng7</i>
<i>Fam38a</i>	<i>Frrs1</i>	<i>Gnmt</i>
<i>Fam55d</i>	<i>Fscn2</i>	<i>Gnrh1</i>
<i>Fam65b</i>	<i>Fscn3</i>	<i>Gnrhr</i>
<i>Fam65c</i>	<i>Fsd2</i>	<i>Golga7b</i>
<i>Fam71b</i>	<i>Fsip1</i>	<i>Gp1ba</i>
<i>Fam71f2</i>	<i>Fxyd2</i>	<i>Gp9</i>
<i>Fancc</i>	<i>Fxyd4</i>	<i>Gpam</i>
<i>Fap</i>	<i>G6pd2</i>	<i>Gpat2</i>
<i>Far2</i>	<i>Gabrr2</i>	<i>Gpbar1</i>
<i>Fblim1</i>	<i>Gadl1</i>	<i>Gpcpd1</i>
<i>Fbrs</i>	<i>Gal3st4</i>	<i>Gpd1</i>
<i>Fbxl2</i>	<i>Gapdhs</i>	<i>Gpha2</i>
<i>Fbxl5</i>	<i>Gata1</i>	<i>Gphb5</i>
<i>Fbxo40</i>	<i>Gatad2b</i>	<i>Gpld1</i>
<i>Fcer1g</i>	<i>Gatsl3</i>	<i>Gpnmb</i>
<i>Fcer2a</i>	<i>Gbp11</i>	<i>Gpr1</i>
<i>Fcgbp</i>	<i>Gcc1</i>	<i>Gpr111</i>
<i>Fcgr2b</i>	<i>Gcnt2</i>	<i>Gpr113</i>
<i>Fcgr3</i>	<i>Gcnt7</i>	<i>Gpr115</i>
<i>Fcgrt</i>	<i>Gdpd2</i>	<i>Gpr133</i>
<i>Fcrla</i>	<i>Gdpd3</i>	<i>Gpr15</i>
<i>Fcrlb</i>	<i>Gfap</i>	<i>Gpr151</i>
<i>Fer1l4</i>	<i>Ggt6</i>	<i>Gpr152</i>
<i>Ffar2</i>	<i>Ghrh</i>	<i>Gpr161</i>

<i>Gpr173</i>	<i>H2-M10.2</i>	<i>Hvcn1</i>
<i>Gpr179</i>	<i>H2-M2</i>	<i>Hyal1</i>
<i>Gpr18</i>	<i>H2-Ob</i>	<i>I830077J02Rik</i>
<i>Gpr182</i>	<i>H2-T3</i>	<i>Ibtk</i>
<i>Gpr183</i>	<i>Haao</i>	<i>Icos</i>
<i>Gpr21</i>	<i>Hal</i>	<i>Ide</i>
<i>Gpr22</i>	<i>Hamp</i>	<i>Iffo2</i>
<i>Gpr34</i>	<i>Havcr2</i>	<i>Ifi27l2a</i>
<i>Gpr35</i>	<i>Hba-a1</i>	<i>Ifi30</i>
<i>Gpr44</i>	<i>Hba-a2</i>	<i>Ifi47</i>
<i>Gpr55</i>	<i>Hbb-b1</i>	<i>Ifit1</i>
<i>Gpr56</i>	<i>Hbb-b2</i>	<i>Ifit3</i>
<i>Gpr61</i>	<i>Hc</i>	<i>Ifitm2</i>
<i>Gpr77</i>	<i>Hdac4</i>	<i>Ifitm3</i>
<i>Gpr82</i>	<i>Hdac9</i>	<i>Ifitm5</i>
<i>Gpr84</i>	<i>Hdc</i>	<i>Ifnz</i>
<i>Gpr87</i>	<i>Hemgn</i>	<i>Igfals</i>
<i>Gpr97</i>	<i>Hepacam</i>	<i>Igj</i>
<i>Gprin3</i>	<i>Hgfac</i>	<i>Igll1</i>
<i>Gpx8</i>	<i>Hiat1</i>	<i>Igsf6</i>
<i>Gramd1c</i>	<i>Hif1a</i>	<i>Igsf8</i>
<i>Gramd3</i>	<i>Hif3a</i>	<i>Igsf9</i>
<i>Grb7</i>	<i>Higd1b</i>	<i>Igp1</i>
<i>Greb1l</i>	<i>Higd1c</i>	<i>Il13</i>
<i>Grifin</i>	<i>Hipk4</i>	<i>Il16</i>
<i>Grk1</i>	<i>Hist1h2aa</i>	<i>Il17c</i>
<i>Gsg1</i>	<i>Hist1h2ba</i>	<i>Il18bp</i>
<i>Gsta3</i>	<i>Hk1</i>	<i>Il18r1</i>
<i>Gsta4</i>	<i>Hk3</i>	<i>Il1a</i>
<i>Gstm7</i>	<i>Hnf1a</i>	<i>Il1r1</i>
<i>Gtsf1l</i>	<i>Hnf4a</i>	<i>Il20rb</i>
<i>Guca1a</i>	<i>Homez</i>	<i>Il23a</i>
<i>Guca1b</i>	<i>Hormad2</i>	<i>Il2ra</i>
<i>Gucy1b2</i>	<i>Hoxa5</i>	<i>Il2rb</i>
<i>Gulo</i>	<i>Hpgd</i>	<i>Il34</i>
<i>Gykl1</i>	<i>Hpgds</i>	<i>Il5ra</i>
<i>Gys2</i>	<i>Hsd17b14</i>	<i>Il7r</i>
<i>Gzmm</i>	<i>Hsd3b7</i>	<i>Il9r</i>
<i>H1foo</i>	<i>Hsf5</i>	<i>Impg1</i>
<i>H2-Aa</i>	<i>Hsp90aa1</i>	<i>Impg2</i>
<i>H2-DMb1</i>	<i>Hspa12b</i>	<i>Inhbc</i>
<i>H2-DMb2</i>	<i>Htr2b</i>	<i>Inpp4b</i>
<i>H2-Eb1</i>	<i>Hus1b</i>	<i>Inpp5j</i>

<i>Insig2</i>	<i>Klf12</i>	<i>Lgals7</i>
<i>Ins15</i>	<i>Klhl30</i>	<i>Lgals8</i>
<i>Ip6k2</i>	<i>Klhl38</i>	<i>Lgi4</i>
<i>Ipcef1</i>	<i>Klk10</i>	<i>Lhfp11</i>
<i>Iqsec1</i>	<i>Klk14</i>	<i>Lhfp15</i>
<i>Irf6</i>	<i>Klk9</i>	<i>Lifr</i>
<i>Irgc1</i>	<i>Klrb1c</i>	<i>Lilrb3</i>
<i>Islr</i>	<i>Klrb1f</i>	<i>Lim2</i>
<i>Itga10</i>	<i>Klrc1</i>	<i>Lime1</i>
<i>Itga2b</i>	<i>Klre1</i>	<i>Liph</i>
<i>Itga6</i>	<i>Klrg1</i>	<i>Lipm</i>
<i>Itgad</i>	<i>Klrk1</i>	<i>Lman1</i>
<i>Itgae</i>	<i>Kmo</i>	<i>Lman1l</i>
<i>Itgam</i>	<i>Kncn</i>	<i>Lmod1</i>
<i>Itgax</i>	<i>Krt222</i>	<i>Lmod2</i>
<i>Itgb1bp2</i>	<i>Krt28</i>	<i>Lpar5</i>
<i>Itgb1bp3</i>	<i>Krt4</i>	<i>Lpcat2b</i>
<i>Itgb7</i>	<i>Ktn1</i>	<i>Lpin3</i>
<i>Itih4</i>	<i>Kynu</i>	<i>Lfn1</i>
<i>lyd</i>	<i>L1cam</i>	<i>Lrrc10</i>
<i>Jph2</i>	<i>Lair1</i>	<i>Lrrc14b</i>
<i>Kcna10</i>	<i>Lalba</i>	<i>Lrrc19</i>
<i>Kcnab1</i>	<i>Lama4</i>	<i>Lrrc25</i>
<i>Kcnd1</i>	<i>Lamb2</i>	<i>Lrrc39</i>
<i>Kcnip1</i>	<i>Lamb3</i>	<i>Lrrc66</i>
<i>Kcnip3</i>	<i>Lamp3</i>	<i>Lrrn3</i>
<i>Kcnip4</i>	<i>Lass3</i>	<i>Lrrn4cl</i>
<i>Kcnj13</i>	<i>Lat2</i>	<i>Lrrtm2</i>
<i>Kcnj14</i>	<i>Lats1</i>	<i>Lsr</i>
<i>Kcnj16</i>	<i>Lbp</i>	<i>Lta</i>
<i>Kcnk7</i>	<i>Lcat</i>	<i>Ltf</i>
<i>Kcnma1</i>	<i>Lcn4</i>	<i>Ly6a</i>
<i>Kcnmb1</i>	<i>Lct</i>	<i>Ly6c1</i>
<i>Kcnrg</i>	<i>Ldha</i>	<i>Ly6c2</i>
<i>Kcnu1</i>	<i>Ldhc</i>	<i>Ly6g5b</i>
<i>Kctd14</i>	<i>Ldhd</i>	<i>Ly6i</i>
<i>Kctd18</i>	<i>Ldlrad1</i>	<i>Ly86</i>
<i>Kctd4</i>	<i>Ldlrad2</i>	<i>Lypd2</i>
<i>Kdm4c</i>	<i>Leap2</i>	<i>Lyz2</i>
<i>Kel</i>	<i>Lefty1</i>	<i>Lzts1</i>
<i>Khdc1a</i>	<i>Lenep</i>	<i>Magix</i>
<i>Kif7</i>	<i>Lgals3</i>	<i>Maml2</i>
<i>Klb</i>	<i>Lgals4</i>	<i>Mamstr</i>

Map3k13
Mapk10
Mas1
Masp2
Matn1
Mc1r
Mc5r
Mcoln3
Mcpt8
Mcts2
Mdga1
Mecom
Mef2c
Mest
Mfi2
Mfrp
Mfsd2b
Mgp
Mgst1
Mia2
Mical3
Micall2
Mid1
Mip
Mmd
Mmp12
Mmp13
Mmp19
Mmp21
Morc1
Morc2b
Morn3
Mosc1
Moxd2
Mpeg1
Mpp4
Mpv17
Mrc1
Mrps24
Mrvi1
Ms4a15
Ms4a4b
Ms4a4d

Ms4a6c
Ms4a6d
Ms4a7
Msh4
Msln1
Msmg
Msra
Mst1r
Mthfs
Mtmr7
Mttp
Muc13
Muc5b
Muc6
Mustn1
Mx2
Myadm
Mybpc3
Mybphl
Myh3
Myh4
Myh7b
Myl10
Myl6
Myl9
Mylk4
Myo15
Myo1a
Myo1f
Myo1h
Myo3b
Myoc
Myocd
Myom1
Myoz1
Myoz3
Naa11
Naalad2
Naalad11
Naip2
Naip7
Nanos3
Nap115

Nbas
Ncf1
Ncf2
Ncf4
Nckap5
Ndel1
Ndst2
Necab1
Nedd8
Neur13
Nfam1
Nfia
Nfyc
Ng23
Ngp
Nhedc1
Nhej1
Nhs11
Nkg7
Nlgn3
Nlrc4
Nlrc5
Nlrp1a
Nlrp1b
Nmnat3
Nmur1
Nod2
Nos3
Nostrin
Notch2
Notch4
Nox1
Npb
Npc111
Npff
Npm2
Nppa
Nqo1
Nr1i2
Nradd
Nrap
Nrip2
Nrn11

Nsmce4a
Nt5dc2
Nudt15
Nup210l
Nxf2
Nxn1
Nynrin
Nyx
Oas1a
Oas1e
Oas2
Oas3
Oasl2
Oaz3
Odz4
Ogn
Ola1
Olfml3
Omd
Omg
Omp
Opalin
Oplah
Opn1sw
Opr1
Orm1
Orm2
Orm3
Osbpl10
Osgin1
Osta
Otor
Otos
Otud6a
Ovgp1
P2rx1
P2rx7
P2ry12
P2ry13
P2ry14
Pabpc1l
Pabpc2
Pabpc4

Pabpn1l
Padi1
Padi3
Padi4
Padi6
Pald
Palm3
Panx3
Papola
Paqr5
Park2
Parp11
Pate4
Patl2
Pcbd1
Pcdha10
Pcdhb16
Pcdhb5
Pcdhga11
Pcdhga12
Pcdhga2
Pcdhga3
Pcdhga8
Pcdhga9
Pcdhgc3
Pcdhgc4
Pcdhgc5
Pcolce
Pcp2
Pcsk1
Pcyt1b
Pdcd1lg2
Pde1a
Pde1c
Pde2a
Pde4c
Pde4d
Pde6a
Pde6b
Pde6g
Pdha2
Pdzd3
Pdzd9

Pdzk1
Pear1
Pef1
Pgam2
Pgf
Pglyrp1
Phactr1
Phex
Phf17
Phf3
Phldb2
Phyhd1
Phyhipl
Pi16
Pid1
Pign
Pik3cd
Pip5kl1
Pipox
Pir
Piwil2
Pkhd1l1
Pklr
Pkmyt1
Pkn2
Pkp3
Pla1a
Pla2g10
Pla2g3
Pla2g4c
Pla2g4f
Plat
Plcd4
Plce1
Pld4
Pld6
Plekha6
Plekhb1
Plekhg4
Plekhn1
Plin4
Pln
Plp1

<i>Plxnb3</i>	<i>Prss34</i>	<i>Rarb</i>
<i>Pmch</i>	<i>Prss36</i>	<i>Rb1cc1</i>
<i>Pnma3</i>	<i>Prss39</i>	<i>Rbbp6</i>
<i>Pnmt</i>	<i>Prss52</i>	<i>Rbm25</i>
<i>Pnp2</i>	<i>Prss53</i>	<i>Rbm47</i>
<i>Pnpla1</i>	<i>Prss55</i>	<i>Rbms2</i>
<i>Pnrc1</i>	<i>Prss8</i>	<i>Rbpj</i>
<i>Podn</i>	<i>Prx</i>	<i>Rcbtb2</i>
<i>Podnl1</i>	<i>Psap1</i>	<i>Rdh1</i>
<i>Pole4</i>	<i>Psat1</i>	<i>Rdh9</i>
<i>Pomc</i>	<i>Psen2</i>	<i>Rec8</i>
<i>Popdc2</i>	<i>Psmas6</i>	<i>Reep2</i>
<i>Por</i>	<i>Psmas8</i>	<i>Rem2</i>
<i>Pot1b</i>	<i>Psors1c2</i>	<i>Renbp</i>
<i>Pou1f1</i>	<i>Ptgds</i>	<i>Rfpl4</i>
<i>Pou2af1</i>	<i>Ptger1</i>	<i>Rfx8</i>
<i>Ppapdc3</i>	<i>Ptges</i>	<i>Rgs18</i>
<i>Pparg</i>	<i>Ptgir</i>	<i>Rgs20</i>
<i>Ppargc1a</i>	<i>Ptgs2</i>	<i>Rgs3</i>
<i>Ppef2</i>	<i>Ptplad2</i>	<i>Rgs8</i>
<i>Ppfia4</i>	<i>Ptprd</i>	<i>Rgs9</i>
<i>Ppp1r13b</i>	<i>Pvrl4</i>	<i>Rhbdl1</i>
<i>Ppp2r3a</i>	<i>Pxt1</i>	<i>Rhd</i>
<i>Pram1</i>	<i>Pycr1</i>	<i>Rho</i>
<i>Prelp</i>	<i>Pygl</i>	<i>Rhox2f</i>
<i>Prf1</i>	<i>Pygm</i>	<i>Rin2</i>
<i>Prg4</i>	<i>Pyroxd2</i>	<i>Ripply1</i>
<i>Prkag1</i>	<i>Qprt</i>	<i>Rlbp1</i>
<i>Prl4a1</i>	<i>Qrfp</i>	<i>Rltpr</i>
<i>Prm1</i>	<i>Qrich2</i>	<i>Rnase10</i>
<i>Prox2</i>	<i>Qtrtd1</i>	<i>Rnase6</i>
<i>Proz</i>	<i>R3hdm2</i>	<i>Rnf11</i>
<i>Prph2</i>	<i>Rab25</i>	<i>Rnf121</i>
<i>Prpsap1</i>	<i>Rab26</i>	<i>Rnf123</i>
<i>Prr13</i>	<i>Rab27b</i>	<i>Rnf125</i>
<i>Prr14</i>	<i>Rab36</i>	<i>Rnf128</i>
<i>Prr15l</i>	<i>Rab3il1</i>	<i>Rnf165</i>
<i>Prr19</i>	<i>Rab44</i>	<i>Rnf169</i>
<i>Prr5l</i>	<i>Raet1b</i>	<i>Rnf183</i>
<i>Prrt3</i>	<i>Raet1d</i>	<i>Rnf4</i>
<i>Prss2</i>	<i>Ramp3</i>	<i>Rnf43</i>
<i>Prss27</i>	<i>Rapgef5</i>	<i>Rpgrip1</i>
<i>Prss33</i>	<i>Rapsn</i>	<i>Rph3al</i>

<i>Rpl39l</i>	<i>Sec16b</i>	<i>Slc16a7</i>
<i>Rpl3l</i>	<i>Selp</i>	<i>Slc17a8</i>
<i>Rpl41</i>	<i>Sema3b</i>	<i>Slc17a9</i>
<i>Rps13</i>	<i>Sema4a</i>	<i>Slc22a1</i>
<i>Rps6ka3</i>	<i>Sema4b</i>	<i>Slc22a8</i>
<i>Rps6ka6</i>	40430	<i>Slc23a1</i>
<i>Rsad2</i>	40424	<i>Slc23a3</i>
<i>Rsph1</i>	<i>Serpina1a</i>	<i>Slc24a5</i>
<i>Rsph6a</i>	<i>Serpina5</i>	<i>Slc25a18</i>
<i>Rtp1</i>	<i>Serpinc1</i>	<i>Slc25a2</i>
<i>Runx2</i>	<i>Serpind1</i>	<i>Slc25a34</i>
<i>Runx3</i>	<i>Serpine1</i>	<i>Slc25a41</i>
<i>Ruvbl2</i>	<i>Serpinf1</i>	<i>Slc25a47</i>
<i>Rxfp1</i>	<i>Serpinf2</i>	<i>Slc26a1</i>
<i>Rxfp4</i>	<i>Sestd1</i>	<i>Slc27a5</i>
<i>Ryr1</i>	<i>Set</i>	<i>Slc28a1</i>
<i>S100a14</i>	<i>Sez6l2</i>	<i>Slc28a2</i>
<i>S100a3</i>	<i>Sftpb</i>	<i>Slc2a6</i>
<i>S100a4</i>	<i>Sgca</i>	<i>Slc2a9</i>
<i>S100a6</i>	<i>Sgcg</i>	<i>Slc31a2</i>
<i>S100b</i>	<i>Sgip1</i>	<i>Slc36a3</i>
<i>Sag</i>	<i>Sh2d1b1</i>	<i>Slc39a2</i>
<i>Samd3</i>	<i>Sh2d4b</i>	<i>Slc39a4</i>
<i>Samd4b</i>	<i>Sh3d19</i>	<i>Slc39a5</i>
<i>Samsn1</i>	<i>Sh3rf2</i>	<i>Slc3a1</i>
<i>Sap25</i>	<i>Sh3tc1</i>	<i>Slc44a3</i>
<i>Sardh</i>	<i>Siglec1</i>	<i>Slc4a5</i>
<i>Sarnp</i>	<i>Siglece</i>	<i>Slc5a10</i>
<i>Sbsn</i>	<i>Siglecg</i>	<i>Slc5a11</i>
<i>Scd3</i>	<i>Siglech</i>	<i>Slc5a2</i>
<i>Scd4</i>	<i>Sin3a</i>	<i>Slc5a9</i>
<i>Scel</i>	<i>Sipa1l2</i>	<i>Slc6a18</i>
<i>Scg3</i>	<i>Sipa1l3</i>	<i>Slc6a19</i>
<i>Scgb1c1</i>	<i>Slc10a1</i>	<i>Slc6a20b</i>
<i>Scgb3a1</i>	<i>Slc10a5</i>	<i>Slc7a3</i>
<i>Scn11a</i>	<i>Slc12a3</i>	<i>Slc7a7</i>
<i>Scn2b</i>	<i>Slc12a7</i>	<i>Slc8a1</i>
<i>Scn4a</i>	<i>Slc12a8</i>	<i>Slco2b1</i>
<i>Scoc</i>	<i>Slc13a4</i>	<i>Slfn1</i>
<i>Scp2</i>	<i>Slc14a2</i>	<i>Slfn4</i>
<i>Scx</i>	<i>Slc15a2</i>	<i>Slfn1l</i>
<i>Sdcbp2</i>	<i>Slc15a3</i>	<i>Slpi</i>
<i>Sds</i>	<i>Slc16a4</i>	<i>Slurp1</i>

<i>Smc1b</i>	<i>Strada</i>	<i>Tdrd7</i>
<i>Snrpn</i>	<i>Strc</i>	<i>Tecta</i>
<i>Snx13</i>	<i>Stx19</i>	<i>Teddm1</i>
<i>Snx29</i>	<i>Stx4a</i>	<i>Tef</i>
<i>Snx31</i>	<i>Sult1a1</i>	<i>Tekt2</i>
<i>Soat2</i>	<i>Sult2b1</i>	<i>Tekt5</i>
<i>Socs6</i>	<i>Sult6b1</i>	<i>Tex101</i>
<i>Sorbs2</i>	<i>Susd2</i>	<i>Tff3</i>
<i>Sox15</i>	<i>Svopl</i>	<i>Tfpi</i>
<i>Sp2</i>	<i>Syce1</i>	<i>Tg</i>
<i>Spaca4</i>	<i>Syce1l</i>	<i>Tgfb1i1</i>
<i>Spag1</i>	<i>Sycn</i>	<i>Tgm1</i>
<i>Sparc</i>	<i>Sycp3</i>	<i>Tgm3</i>
<i>Spata21</i>	<i>Synpo</i>	<i>Tgm4</i>
<i>Spata9</i>	<i>Synpo2l</i>	<i>Tgm6</i>
<i>Spatc1</i>	<i>Syt14</i>	<i>Tgtp1</i>
<i>Spem1</i>	<i>Sytl2</i>	<i>Tgtp2</i>
<i>Spib</i>	<i>Tacc2</i>	<i>Thbs2</i>
<i>Spink2</i>	<i>Tacr2</i>	<i>Thoc2</i>
<i>Spink4</i>	<i>Taf4b</i>	<i>Tiam1</i>
<i>Src</i>	<i>Tagap</i>	<i>Tiam2</i>
<i>Srcrb4d</i>	<i>Tagln</i>	<i>Tigit</i>
<i>Srgn</i>	<i>Tagln3</i>	<i>Timm8a2</i>
<i>Sri</i>	<i>Tank</i>	<i>Timp1</i>
<i>Srpk3</i>	<i>Tas1r3</i>	<i>Tktl1</i>
<i>Srpx</i>	<i>Tas2r143</i>	<i>Tln2</i>
<i>Ssh3</i>	<i>Tat</i>	<i>Tlr13</i>
<i>St18</i>	<i>Tbata</i>	<i>Tlr4</i>
<i>St5</i>	<i>Tbc1d1</i>	<i>Tlr7</i>
<i>St6galnac6</i>	<i>Tbc1d14</i>	<i>Tlr9</i>
<i>Stab2</i>	<i>Tbcel</i>	<i>Tm4sf20</i>
<i>Stac3</i>	<i>Tbx19</i>	<i>Tm4sf5</i>
<i>Stag1</i>	<i>Tbx6</i>	<i>Tm6sf2</i>
<i>Stap2</i>	<i>Tcam1</i>	<i>Tmc1</i>
<i>Star</i>	<i>Tcap</i>	<i>Tmc2</i>
<i>Stard8</i>	<i>Tceanc</i>	<i>Tmc3</i>
<i>Stc1</i>	<i>Tcf20</i>	<i>Tmc4</i>
<i>Steap3</i>	<i>Tcf23</i>	<i>Tmed6</i>
<i>Steap4</i>	<i>Tcte1</i>	<i>Tmem119</i>
<i>Stoml3</i>	<i>Tctex1d4</i>	<i>Tmem120b</i>
<i>Ston2</i>	<i>Tctn2</i>	<i>Tmem150b</i>
<i>Stox2</i>	<i>Tdgf1</i>	<i>Tmem173</i>
<i>Stra8</i>	<i>Tdo2</i>	<i>Tmem184a</i>

<i>Tmem204</i>	<i>Trfr2</i>	<i>Upb1</i>
<i>Tmem219</i>	<i>Trhr2</i>	<i>Upk1a</i>
<i>Tmem22</i>	<i>Trim43a</i>	<i>Upk1b</i>
<i>Tmem30c</i>	<i>Trim43c</i>	<i>Upk3b</i>
<i>Tmem45a</i>	<i>Trim44</i>	<i>Usp14</i>
<i>Tmem52</i>	<i>Trim47</i>	<i>Usp31</i>
<i>Tmem56</i>	<i>Trim66</i>	<i>Usp37</i>
<i>Tmem63c</i>	<i>Trim69</i>	<i>Usp50</i>
<i>Tmem81</i>	<i>Trim72</i>	<i>Usp54</i>
<i>Tmem86b</i>	<i>Trip6</i>	<i>Usp7</i>
<i>Tmem89</i>	<i>Trpm1</i>	<i>Utrn</i>
<i>Tmem8c</i>	<i>Trpv5</i>	<i>Vasn</i>
<i>Tmod4</i>	<i>Trpv6</i>	<i>Vcam1</i>
<i>Tmprss3</i>	<i>Tshb</i>	<i>Vil1</i>
<i>Tmprss4</i>	<i>Tsks</i>	<i>Vit</i>
<i>Tmprss7</i>	<i>Tspan1</i>	<i>Vmn2r1</i>
<i>Tmprss9</i>	<i>Tspan10</i>	<i>Vmn2r84</i>
<i>Tmsb15b2</i>	<i>Tspan7</i>	<i>Vpreb2</i>
<i>Tnfrsf13b</i>	<i>Tssk2</i>	<i>Vpreb3</i>
<i>Tnfrsf13c</i>	<i>Tssk4</i>	<i>Vsig2</i>
<i>Tnfrsf17</i>	<i>Tssk5</i>	<i>Vwa1</i>
<i>Tnfrsf4</i>	<i>Ttc30a2</i>	<i>Vwf</i>
<i>Tnfsf4</i>	<i>Ttc36</i>	<i>Wbp2nl</i>
<i>Tnfsf8</i>	<i>Ttll10</i>	<i>Wdr20b</i>
<i>Tnip1</i>	<i>Ttll3</i>	<i>Wdr25</i>
<i>Tnk1</i>	<i>Ttn</i>	<i>Wdr92</i>
<i>Tnmd</i>	<i>Tuba3a</i>	<i>Wdtdc1</i>
<i>Tnn</i>	<i>Tuba3b</i>	<i>Wfikkn2</i>
<i>Tnnc2</i>	<i>Tubb3</i>	<i>Wisp3</i>
<i>Tnni1</i>	<i>Tyrobp</i>	<i>Wnt8b</i>
<i>Tnnt1</i>	<i>Ubash3b</i>	<i>Xcl1</i>
<i>Tnnt3</i>	<i>Ube2d2</i>	<i>Xcr1</i>
<i>Tnr</i>	<i>Ube2f</i>	<i>Xdh</i>
<i>Tns1</i>	<i>Ube2n</i>	<i>Xiap</i>
<i>Tns4</i>	<i>Ubqln3</i>	<i>Xirp1</i>
<i>Tollip</i>	<i>Ubr5</i>	<i>Xlr</i>
<i>Tom1</i>	<i>Ubxn10</i>	<i>Xlr3b</i>
<i>Tpm3</i>	<i>Uchl4</i>	<i>Xlr3c</i>
<i>Tpst1</i>	<i>Ucma</i>	<i>Xpnpep2</i>
<i>Tpte</i>	<i>Ucn2</i>	<i>Yipf7</i>
<i>Trcg1</i>	<i>Ucp3</i>	<i>Ythdc2</i>
<i>Trex2</i>	<i>Ugt1a6b</i>	<i>Zan</i>
<i>Trf</i>	<i>Unc5cl</i>	<i>Zbtb11</i>

Zbtb32
Zbtb38
Zcchc12
Zcchc4
Zcchc5
Zdhhc1
Zdhhc18
Zfa
Zfp111
Zfp112
Zfp217
Zfp236
Zfp366
Zfp36l3
Zfp385c
Zfp395
Zfp459
Zfp516
Zfp541
Zfp575
Zfp59
Zfp654
Zfp708
Zfp709
Zfp72
Zfp750
Zfp775
Zfp799
Zfp811
Zfp819
Zfp831
Zfp870
Zfp873
Zfp879
Zfp92
Zg16
Zkscan17
Zmat1
Zmynd10
Zmynd17
Zmynd8
Zp1

H3K4me3^{hi}
H3K27me3^{lo}

0610007C21Rik	1110037F02Rik	1700019B03Rik
0610007L01Rik	1110038D17Rik	1700019G17Rik
0610007P08Rik	1110038F14Rik	1700020L24Rik
0610007P14Rik	1110049F12Rik	1700020O03Rik
0610007P22Rik	1110051M20Rik	1700021C14Rik
0610009B22Rik	1110057K04Rik	1700021F05Rik
0610009D07Rik	1110058L19Rik	1700021K19Rik
0610009O20Rik	1110059E24Rik	1700025E21Rik
0610010F05Rik	1110059G10Rik	1700025G04Rik
0610010K14Rik	1190002H23Rik	1700025K23Rik
0610011F06Rik	1190002N15Rik	1700029F09Rik
0610011L14Rik	1190005F20Rik	1700029G01Rik
0610030E20Rik	1190005I06Rik	1700029J07Rik
0610031J06Rik	1190007I07Rik	1700030J22Rik
0610037L13Rik	1200011I18Rik	1700030K09Rik
0610037P05Rik	1200011M11Rik	1700034F02Rik
0910001L09Rik	1200014J11Rik	1700034H14Rik
1110001A16Rik	1200016B10Rik	1700037C18Rik
1110001J03Rik	1300001I01Rik	1700037H04Rik
1110002B05Rik	1300010F03Rik	1700040I03Rik
1110002N22Rik	1300017J02Rik	1700040L02Rik
1110003E01Rik	1300018I17Rik	1700049G17Rik
1110004E09Rik	1500001M20Rik	1700052N19Rik
1110004F10Rik	1500002O20Rik	1700054N08Rik
1110005A03Rik	1500003O03Rik	1700056E22Rik
1110007C09Rik	1500010J02Rik	1700066B19Rik
1110008F13Rik	1500011H22Rik	1700066M21Rik
1110008J03Rik	1500012F01Rik	1700067K01Rik
1110008L16Rik	1500031L02Rik	1700081L11Rik
1110008P14Rik	1500032L24Rik	1700088E04Rik
1110012L19Rik	1520402A15Rik	1700106N22Rik
1110018G07Rik	1600002H07Rik	1700113I22Rik
1110018J18Rik	1600002K03Rik	1700123O20Rik
1110020G09Rik	1600012F09Rik	1810006K21Rik
1110021J02Rik	1600012H06Rik	1810008A18Rik
1110028C15Rik	1600014C10Rik	1810009A15Rik
1110031I02Rik	1600016N20Rik	1810013D10Rik
1110032A03Rik	1600027N09Rik	1810013L24Rik
1110034A24Rik	1700001O22Rik	1810014F10Rik
1110034G24Rik	1700009P17Rik	1810020D17Rik
	1700010I14Rik	1810022K09Rik
	1700012A16Rik	1810024B03Rik
	1700017B05Rik	1810026J23Rik

1810029B16Rik	2310011J03Rik	2510009E07Rik
1810030N24Rik	2310016M24Rik	2510012J08Rik
1810030O07Rik	2310021P13Rik	2510039O18Rik
1810031K17Rik	2310022A10Rik	2610002D18Rik
1810035L17Rik	2310022B05Rik	2610002I17Rik
1810037I17Rik	2310028H24Rik	2610002J02Rik
1810043G02Rik	2310030N02Rik	2610002M06Rik
1810043H04Rik	2310033P09Rik	2610008E11Rik
1810046J19Rik	2310035C23Rik	2610015P09Rik
1810048J11Rik	2310036O22Rik	2610018G03Rik
1810049H13Rik	2310037I24Rik	2610020H08Rik
1810055G02Rik	2310039H08Rik	2610021K21Rik
1810062G17Rik	2310044G17Rik	2610027L16Rik
1810063B05Rik	2310044H10Rik	2610029G23Rik
1810063B07Rik	2310045N01Rik	2610029I01Rik
1810074P20Rik	2310046O06Rik	2610039C10Rik
2010002N04Rik	2310047B19Rik	2610101N10Rik
2010012O05Rik	2310047M10Rik	2610301B20Rik
2010015L04Rik	2310057M21Rik	2610301G19Rik
2010106G01Rik	2310061C15Rik	2610318N02Rik
2010107E04Rik	2310067B10Rik	2610507B11Rik
2010109A12Rik	2310079F23Rik	2610524H06Rik
2010109K11Rik	2400001E08Rik	2610528E23Rik
2010305A19Rik	2400003C14Rik	2700007P21Rik
2010317E24Rik	2410001C21Rik	2700029M09Rik
2010321M09Rik	2410002F23Rik	2700049A03Rik
2200002D01Rik	2410002I01Rik	2700050L05Rik
2210012G02Rik	2410002O22Rik	2700060E02Rik
2210016F16Rik	2410003K15Rik	2700062C07Rik
2210016L21Rik	2410004B18Rik	2700078E11Rik
2210018M11Rik	2410015M20Rik	2700097O09Rik
2210021J22Rik	2410016O06Rik	2810002N01Rik
2210404O07Rik	2410042D21Rik	2810004N23Rik
2210408I21Rik	2410066E13Rik	2810006K23Rik
2310001A20Rik	2410075B13Rik	2810008M24Rik
2310003C23Rik	2410089E03Rik	2810021B07Rik
2310003H01Rik	2410091C18Rik	2810021J22Rik
2310003L22Rik	2410127L17Rik	2810046L04Rik
2310004I24Rik	2410131K14Rik	2810403A07Rik
2310004N24Rik	2500003M10Rik	2810405K02Rik
2310008H04Rik	2510002D24Rik	2810408A11Rik
2310008H09Rik	2510003E04Rik	2810408M09Rik
2310009B15Rik	2510006D16Rik	2810417H13Rik

2810422J05Rik	4930420K17Rik	5033411D12Rik
2810422O20Rik	4930422G04Rik	5033414D02Rik
2810428I15Rik	4930427A07Rik	5133401N09Rik
2810432D09Rik	4930430F08Rik	5430437P03Rik
2810453I06Rik	4930432K21Rik	5730403B10Rik
2810474O19Rik	4930444A02Rik	5730419I09Rik
2900006K08Rik	4930452B06Rik	5730437N04Rik
2900010M23Rik	4930453N24Rik	5730455O13Rik
2900064A13Rik	4930455C21Rik	5730455P16Rik
2900092E17Rik	4930455F23Rik	5730469M10Rik
3010026O09Rik	4930471M23Rik	5730494M16Rik
3110001D03Rik	4930473A06Rik	5730494N06Rik
3110001I22Rik	4930503L19Rik	5730508B09Rik
3110002H16Rik	4930534B04Rik	5730559C18Rik
3110003A17Rik	4930547N16Rik	5730590G19Rik
3110007F17Rik	4930550C14Rik	5830403L16Rik
3110009E18Rik	4930572J05Rik	5830405N20Rik
3110040N11Rik	4930578N16Rik	5830415F09Rik
3110043O21Rik	4930579G22Rik	5830417I10Rik
3110056O03Rik	4930579G24Rik	5830418K08Rik
3110057O12Rik	4930583H14Rik	5830433M19Rik
3110062M04Rik	4930588N13Rik	5930434B04Rik
3110082I17Rik	4931406C07Rik	6030446N20Rik
3300002I08Rik	4931406P16Rik	6030458C11Rik
3830406C13Rik	4931414P19Rik	6230427J02Rik
4632411B12Rik	4931428F04Rik	6330406I15Rik
4632415K11Rik	4932438A13Rik	6330408A02Rik
4632428N05Rik	4933403F05Rik	6330409N04Rik
4632434I11Rik	4933403G14Rik	6330416G13Rik
4732418C07Rik	4933405L10Rik	6330439K17Rik
4732471D19Rik	4933407C03Rik	6330503K22Rik
4831426I19Rik	4933407H18Rik	6330545A04Rik
4833420G17Rik	4933411K20Rik	6330549D23Rik
4833439L19Rik	4933421E11Rik	6330578E17Rik
4833442J19Rik	4933424B01Rik	6430527G18Rik
4921507P07Rik	4933426M11Rik	6430550D23Rik
4921513D23Rik	4933427D14Rik	6430571L13Rik
4921517L17Rik	4933430I17Rik	6430598A04Rik
4921524J17Rik	4933432B09Rik	6430706D22Rik
4922501C03Rik	4933433P14Rik	6530401N04Rik
4922505G16Rik	4933434E20Rik	6530418L21Rik
4930402H24Rik	4933439F18Rik	6720456B07Rik
4930415O20Rik	5031439G07Rik	6720456H20Rik

6720463M24Rik	Aacs	Abi1
8030462N17Rik	Aagab	Abi2
8430406I07Rik	Aak1	Abi3
8430410A17Rik	Aamp	Abl1
8430410K20Rik	Aars	Abl2
8430419L09Rik	Aars2	Abt1
9030624J02Rik	Aarsd1	Abtb1
9030625A04Rik	Aasdh	Abtb2
9130011E15Rik	Aasdhppt	Acaa1a
9130011J15Rik	AB124611	Acaa2
9130019O22Rik	Abca1	Acaca
9130023H24Rik	Abca2	Acad10
9130401M01Rik	Abca7	Acad8
9230110C19Rik	Abcb1a	Acad9
9430015G10Rik	Abcb1b	Acadl
9430016H08Rik	Abcb4	Acadm
9430023L20Rik	Abcb6	Acads
9430038I01Rik	Abcb7	Acadsb
9530068E07Rik	Abcb8	Acadvl
9530077C05Rik	Abcb9	Acap1
9630033F20Rik	Abcc1	Acap2
9930012K11Rik	Abcc10	Acap3
a	Abcc4	Acat1
A130022J15Rik	Abcc5	Acat2
A230046K03Rik	Abcd1	Acbd3
A230050P20Rik	Abcd3	Acbd5
A230051G13Rik	Abcd4	Acbd6
A2ld1	Abce1	Acbd7
A430005L14Rik	Abcf1	Accs
A430033K04Rik	Abcf2	Acd
A430078G23Rik	Abcf3	Acin1
A530054K11Rik	Abcg1	Acly
A630007B06Rik	Abcg3	Acn9
A630033H20Rik	Abhd10	Aco1
A630055G03Rik	Abhd11	Aco2
A830007P12Rik	Abhd12	Acot13
A830010M20Rik	Abhd13	Acot2
A830093I24Rik	Abhd14a	Acot5
A930001N09Rik	Abhd14b	Acot6
AA415398	Abhd15	Acot7
AA467197	Abhd2	Acot8
AA960436	Abhd4	Acot9
Aaas	Abhd8	Acox1

Acox3	Adat2	Agbl5
Acp2	Adat3	Agfg1
Acp5	Adck1	Agfg2
Acp6	Adck2	Aggf1
Acpl2	Adck4	Agk
Acpp	Adck5	Agj
Acsf2	Adcy3	Agpat1
Acsf3	Adcy6	Agpat2
Acsl1	Add1	Agpat3
Acsl3	Add3	Agpat4
Acsl4	Adh5	Agpat5
Acsl5	Adhfe1	Agpat6
Acss1	Adi1	Agphd1
Acss2	Adipor1	Agps
Actb	Adk	Agrn
Actg1	Adnp	Agrp
Actl6a	Adnp2	Agtpbp1
Actn1	Ado	Agtrap
Actn2	Adora2a	Agxt2l2
Actn3	Adpgk	Ahctf1
Actn4	Adprh	Ahcy
Actr10	Adprhl2	Ahcyl1
Actr1a	Adrb2	Ahcyl2
Actr2	Adrbk1	Ahdc1
Actr3	Adrm1	Ahi1
Actr5	Adsl	Ahr
Actr6	Adss	Ahsa1
Actr8	Adssl1	Ahsa2
Acvr1b	Aebp2	AI314180
Acy1	Aen	AI314976
Acyp2	Aes	AI316807
Ada	Afap1	AI413582
Adal	Aff1	AI429214
Adam10	Aff3	AI462493
Adam12	Aff4	AI467606
Adam17	Afg3l1	AI480653
Adam9	Afg3l2	AI597468
Adamts10	Afmid	AI597479
Adamts3	Aftph	AI846148
Adamts4	Aga	AI848100
Adamts6	Agap2	AI987944
Adar	Agap3	Aifm1
Adat1	Agbl3	Aig1

Aimp1	Alg2	Angptl2
Aimp2	Alg3	Angptl4
Aip	Alg5	Angptl6
Ak2	Alg6	Ankfy1
Ak3	Alg8	Ankhd1
Akap1	Alg9	Ankib1
Akap10	Alkbh1	Ankle1
Akap11	Alkbh2	Ankle2
Akap12	Alkbh3	Ankmy2
Akap13	Alkbh4	Ankra2
Akap6	Alkbh5	Ankrd10
Akap7	Alkbh6	Ankrd11
Akap8	Alkbh7	Ankrd12
Akap9	Alkbh8	Ankrd13a
Akirin1	Alms1	Ankrd13b
Akirin2	Alpk1	Ankrd13c
Akna	Als2	Ankrd13d
Akr1b10	Als2cr4	Ankrd16
Akr1b3	Amac1	Ankrd17
Akr1e1	Amacr	Ankrd24
Akr7a5	Ambra1	Ankrd26
Akt1	Amdhd1	Ankrd28
Akt1s1	Amdhd2	Ankrd29
Akt2	Amfr	Ankrd32
Akt3	Ammecr1	Ankrd35
Aktip	Ammecr1l	Ankrd37
Alad	Amn1	Ankrd39
Alas1	Amot	Ankrd40
Aldh16a1	Ampd2	Ankrd44
Aldh18a1	Ampd3	Ankrd46
Aldh1b1	Amz2	Ankrd49
Aldh2	Anapc1	Ankrd50
Aldh3a2	Anapc10	Ankrd52
Aldh4a1	Anapc11	Ankrd54
Aldh6a1	Anapc13	Ankrd55
Aldh7a1	Anapc16	Ankrd60
Aldh9a1	Anapc2	Ankrd9
Aldoa	Anapc4	Anks1
Alg1	Anapc5	Anks3
Alg10b	Anapc7	Anln
Alg12	Angel1	Ano10
Alg13	Angpt1	Ano6
Alg14	Angpt2	Ano8

Anp32a	Aph1a	Arhgap17
Anp32b	Aph1b	Arhgap18
Anp32e	Aph1c	Arhgap19
Antxr2	Api5	Arhgap21
Anubl1	Apip	Arhgap23
Anxa11	Apitd1	Arhgap24
Anxa2	Ap1f	Arhgap25
Anxa4	Apoa1bp	Arhgap30
Anxa5	Apoa2	Arhgap31
Anxa6	Apobec1	Arhgap33
Anxa7	Apobec3	Arhgap4
Ap1ar	Apoe	Arhgap5
Ap1b1	Apool	Arhgap9
Ap1g1	Appbp2	Arhgdia
Ap1g2	Appl1	Arhgdib
Ap1m1	Appl2	Arhgef1
Ap1s1	Aprt	Arhgef10
Ap1s2	Aptx	Arhgef11
Ap1s3	Aqp11	Arhgef2
Ap2a1	Araf	Arhgef3
Ap2a2	Arap1	Arhgef6
Ap2b1	Arap2	Arid1a
Ap2m1	Arc	Arid2
Ap2s1	Arcn1	Arid3a
Ap3b1	Arf1	Arid3b
Ap3d1	Arf2	Arid4a
Ap3m1	Arf3	Arid4b
Ap3m2	Arf4	Arid5a
Ap3s1	Arf5	Arid5b
Ap3s2	Arf6	Arih1
Ap4b1	Arfgap1	Arih2
Ap4e1	Arfgap2	Arl1
Ap4m1	Arfgap3	Arl10
Ap4s1	Arfgef1	Arl15
Apaf1	Arfgef2	Arl16
Apba3	Arfip2	Arl2
Apbb1ip	Arfrp1	Arl2bp
Apbb3	Arglu1	Arl3
Apc	Arhgap1	Arl4a
Apcdd1	Arhgap10	Arl4c
Apeh	Arhgap11a	Arl4d
Apex1	Arhgap12	Arl5a
Apex2	Arhgap15	Arl5b

Arl5c	Arsk	Atf7ip
Arl6	Art1	Atg10
Arl6ip1	Art4	Atg12
Arl6ip4	Art5	Atg13
Arl6ip5	Arv1	Atg14
Arl6ip6	As3mt	Atg16l1
Arl8a	Asah1	Atg16l2
Arl8b	Asah2	Atg2a
Armc1	Asb1	Atg2b
Armc10	Asb13	Atg3
Armc2	Asb3	Atg4a
Armc3	Asb6	Atg4b
Armc5	Asb7	Atg4c
Armc6	Ascc1	Atg4d
Armc7	Ascc2	Atg5
Armc8	Ascc3	Atg7
Armc9	Asf1a	Atg9a
Armcx1	Asf1b	Atg9b
Armcx2	Asl	Ath1
Armcx3	Asna1	Atic
Armcx5	Asns	Atl1
Armcx6	Asnsd1	Atl2
Arnt	Asph	Atl3
Arntl	Aspm	Atm
Arpc1a	Aspscr1	Atmin
Arpc1b	Asrgl1	Atn1
Arpc2	Ass1	Atox1
Arpc3	Aste1	Atp10a
Arpc4	Astl	Atp11b
Arpc5	Asxl1	Atp13a1
Arpc5l	Asxl2	Atp13a2
Arpp19	Atad1	Atp13a3
Arpp21	Atad2	Atp1a1
Arrb1	Atad3a	Atp1b1
Arrb2	Atad5	Atp1b3
Arrdc1	Atcay	Atp2a2
Arrdc2	Ate1	Atp2a3
Arrdc3	Atf1	Atp2b1
Arrdc4	Atf2	Atp2b4
Arsa	Atf4	Atp5a1
Arsb	Atf5	Atp5b
Arsg	Atf6b	Atp5c1
Arsi	Atf7	Atp5e

Atp5f1	Atxn1l	B3gnt5
Atp5g1	Atxn2	B3gnt8
Atp5g3	Atxn2l	B3gntl1
Atp5h	Atxn3	B4galnt1
Atp5j	Atxn7	B4galt1
Atp5j2	Atxn7l1	B4galt3
Atp5k	Atxn7l2	B4galt4
Atp5l	Atxn7l3	B4galt5
Atp5o	Atxn7l3b	B4galt7
Atp5s	AU019823	B9d1
Atp5sl	AU022252	B9d2
Atp6ap1	AU040320	Bach1
Atp6ap2	Auh	Bach2
Atp6v0a2	Aup1	Bad
Atp6v0b	Aurka	Bag1
Atp6v0c	Aurkaip1	Bag2
Atp6v0d1	Aurkb	Bag4
Atp6v0e	Aven	Bag5
Atp6v1a	Avl9	Bahcc1
Atp6v1b2	Avpi1	Baiap2
Atp6v1c1	AW146020	Bak1
Atp6v1d	AW146154	Banf1
Atp6v1e1	AW209491	Banp
Atp6v1f	AW549877	Bap1
Atp6v1g1	AW555464	Bard1
Atp6v1g2	Axin1	Basp1
Atp6v1h	Axin2	Batf
Atp7a	AY074887	Batf2
Atp8a1	Azi1	Bax
Atp8b2	Azi2	Baz1a
Atp9a	Azin1	Baz1b
Atp9b	B230118H07Rik	Baz2a
Atpaf1	B230208H17Rik	Baz2b
Atpaf2	B230217C12Rik	Bbs1
Atpbd4	B230219D22Rik	Bbs10
Atpif1	B2m	Bbs2
Atr	B3galnt2	Bbs4
Atrip	B3galt4	Bbs5
Atrn	B3galt6	Bbs7
Atrnl1	B3galtl	Bbs9
Atrx	B3gat3	Bbx
Atxn1	B3gnt1	BC002230
Atxn10	B3gnt2	BC003266

BC003331	Bcas2	Bloc1s1
BC004004	Bcas3	Bloc1s3
BC005537	Bcat1	Blvra
BC005624	Bcat2	Blzf1
BC006779	Bccip	Bmf
BC013529	Bcdin3d	Bmi1
BC013712	Bckdha	Bmp2k
BC016423	Bckdk	Bmp7
BC016495	Bcl10	Bms1
BC017158	Bcl11b	Bmyc
BC017643	Bcl2	Bnip1
BC017647	Bcl2l1	Bnip2
BC023829	Bcl2l12	Bnip3
BC024479	Bcl2l13	Bnip3l
BC026590	Bcl2l2	Bod1
BC027231	Bcl6	Bod1l
BC028528	Bcl7a	Bola1
BC029214	Bcl7b	Bola2
BC030307	Bcl7c	Bola3
BC030336	Bcl9	Boll
BC030867	Bclaf1	Bop1
BC031181	Bcs1l	Bpgm
BC031353	Becn1	Bphl
BC031781	Begain	Bpnt1
BC037034	Bend3	Braf
BC046331	Bend5	Brap
BC046404	Bet1	Brca1
BC048355	Bet1l	Brca2
BC048403	Bex2	Brcc3
BC048609	Bex6	Brd1
BC049715	Bfar	Brd2
BC049762	Bhlhb9	Brd4
BC051628	Bicd2	Brd7
BC052040	Bid	Brd8
BC053749	Bin3	Brd9
BC055324	Birc2	Bre
BC056474	Birc3	Brf1
BC057022	Birc5	Brf2
BC057079	Birc6	Bri3bp
BC067068	Bivm	Brip1
BC088983	Blcap	Brix1
Bcap29	Blm	Brms1
Bcap31	Blmh	Brms1l

Brp44	C1d	Camk4
Brp44l	C1galt1	Camkk1
Brpf1	C1galt1c1	Camkk2
Brpf3	C1qbp	Camkv
Brwd1	C2	Caml
Brwd3	C230052I12Rik	Camsap1
Bscl2	C230081A13Rik	Camta1
Bsdc1	C230096C10Rik	Camta2
Bsg	C2cd2	Cand1
Bspry	C2cd2l	Cand2
Bst2	C2cd3	Cant1
Btaf1	C330006K01Rik	Canx
Btbd1	C330007P06Rik	Cap1
Btbd10	C330018D20Rik	Cap2
Btbd2	C330019G07Rik	Capn1
Btbd6	C330027C09Rik	Capn10
Btbd7	C430048L16Rik	Capn2
Btbd9	C630004H02Rik	Capn5
Btc	C78339	Capn7
Btd	C80913	Capns1
Btf3	C87436	Caprin1
Btf3l4	C8g	Caprin2
Btg1	Cab39	Capza1
Btg2	Cab39l	Capza2
Btg3	Cabin1	Capzb
Btk	Cables2	Car12
Btn1a1	Cabyr	Car13
Btrc	Cacnb1	Car5a
Bub1	Cacybp	Car7
Bub1b	Cad	Car9
Bub3	Cage1	Card11
Bud13	Calcoco1	Carf
Bud31	Calcr1	Carhsp1
Bysl	Calhm2	Carkd
Bzw1	Calm1	Carm1
Bzw2	Calm2	Carns1
C030006K11Rik	Calm3	Cars
C030039L03Rik	Calr	Cars2
C030046E11Rik	Calr3	Casc1
C030046I01Rik	Calu	Casc4
C030048B08Rik	Camk1d	Casc5
C130022K22Rik	Camk2d	Casd1
C130039O16Rik	Camk2g	Caskin2

Casp2	Ccdc123	Ccdc57
Casp3	Ccdc124	Ccdc58
Casp6	Ccdc125	Ccdc59
Casp7	Ccdc126	Ccdc6
Casp8	Ccdc127	Ccdc61
Casp8ap2	Ccdc130	Ccdc64
Casp9	Ccdc132	Ccdc66
Cast	Ccdc134	Ccdc69
Cat	Ccdc137	Ccdc71
Catsper2	Ccdc138	Ccdc74a
Cbfa2t2	Ccdc14	Ccdc75
Cbfa2t3	Ccdc141	Ccdc77
Cbfb	Ccdc142	Ccdc79
Cbl	Ccdc15	Ccdc84
Cblb	Ccdc150	Ccdc86
Cbl1	Ccdc151	Ccdc88a
Cbr1	Ccdc153	Ccdc88b
Cbr4	Ccdc155	Ccdc88c
Cbwd1	Ccdc157	Ccdc9
Cbx1	Ccdc158	Ccdc90a
Cbx3	Ccdc163	Ccdc90b
Cbx5	Ccdc17	Ccdc91
Cbx6	Ccdc18	Ccdc92
Cby1	Ccdc21	Ccdc93
Cc2d1a	Ccdc22	Ccdc94
Cc2d1b	Ccdc23	Ccdc96
Ccar1	Ccdc25	Ccdc97
Ccbl1	Ccdc28a	Ccdc99
Ccbl2	Ccdc28b	Cchcr1
Ccdc101	Ccdc30	Ccl25
Ccdc103	Ccdc32	Ccl27a
Ccdc104	Ccdc34	Ccm2
Ccdc107	Ccdc38	Ccna2
Ccdc109a	Ccdc39	Ccnb1
Ccdc109b	Ccdc41	Ccnb2
Ccdc111	Ccdc43	Ccnc
Ccdc114	Ccdc45	Ccnd3
Ccdc115	Ccdc47	Ccndbp1
Ccdc116	Ccdc50	Ccne1
Ccdc117	Ccdc51	Ccne2
Ccdc12	Ccdc53	Ccnf
Ccdc120	Ccdc55	Ccng1
Ccdc122	Ccdc56	Ccng2

Ccnh	Cd48	Cdca3
Ccni	Cd5	Cdca4
Ccnj	Cd52	Cdca5
Ccnjl	Cd59b	Cdca7
Ccnk	Cd6	Cdca8
Ccnl1	Cd69	Cdh24
Ccnl2	Cd79b	Cdipt
Ccnt1	Cd81	Cdk1
Ccnt2	Cd82	Cdk10
Ccny	Cd84	Cdk11b
Ccnyl1	Cd8a	Cdk12
Ccpg1	Cd8b1	Cdk13
Ccr4	Cd96	Cdk16
Ccr7	Cd97	Cdk17
Ccr9	Cd99l2	Cdk19
Ccrn4l	Cdadcl	Cdk2
Ccs	Cdan1	Cdk20
Cct2	Cdc123	Cdk2ap1
Cct3	Cdc14a	Cdk2ap2
Cct4	Cdc16	Cdk4
Cct5	Cdc20	Cdk5
Cct6a	Cdc23	Cdk5r1
Cct6b	Cdc25a	Cdk5rap1
Cct7	Cdc25b	Cdk5rap2
Cct8	Cdc25c	Cdk5rap3
Cd164	Cdc26	Cdk6
Cd1d1	Cdc27	Cdk7
Cd1d2	Cdc34	Cdk8
Cd2	Cdc37	Cdk9
Cd200r1	Cdc37l1	Cdka1
Cd247	Cdc42	Cdkl1
Cd24a	Cdc42bpg	Cdkl2
Cd27	Cdc42ep2	Cdkl3
Cd274	Cdc42ep3	Cdkl4
Cd2ap	Cdc42ep4	Cdkl5
Cd2bp2	Cdc42se1	Cdkn1b
Cd320	Cdc42se2	Cdkn2aip
Cd37	Cdc45	Cdkn2aipnl
Cd3d	Cdc5l	Cdkn2c
Cd3e	Cdc6	Cdkn2d
Cd3g	Cdc7	Cdkn3
Cd46	Cdc73	Cdnf
Cd47	Cdca2	Cdon

Cdr2	Cep72	Chmp1a
Cds2	Cep76	Chmp1b
Cdt1	Cep78	Chmp2a
Cdv3	Cep97	Chmp2b
Cdyl2	Cept1	Chmp5
Cebpb	Cercam	Chmp6
Cebpg	Cerk	Chmp7
Cebpz	Cetn2	Chordc1
Cecr5	Cetn3	Chpf2
Celf1	Cetn4	Chpt1
Celsr1	Cfdp1	Chrac1
Celsr2	Cfl1	Chrna9
Cenpa	Cfl2	Chrbn1
Cenpb	Cflar	Chst10
Cenpc1	Cggbp1	Chst11
Cenpe	Cgrrf1	Chst12
Cenpf	Chac2	Chst14
Cenph	Chaf1a	Chst15
Cenpi	Chaf1b	Chsy1
Cenpj	Chchd1	Chtf18
Cenpk	Chchd10	Chuk
Cenpl	Chchd2	Churc1
Cenpm	Chchd3	Ciao1
Cenpn	Chchd4	Ciapi1
Cenpo	Chchd5	Cib1
Cenpp	Chchd6	Cib2
Cenpq	Chchd8	Cic
Cenpt	Chd1	Cinp
Cenpw	Chd11	Cir1
Cep110	Chd3	Cirbp
Cep120	Chd4	Cirh1a
Cep135	Chd6	Cisd1
Cep152	Chd9	Cisd2
Cep164	Chdh	Cisd3
Cep170	Chek1	Cit
Cep250	Chek2	Cited2
Cep290	Cherp	Ckap2
Cep350	Chfr	Ckap2l
Cep55	Chic2	Ckap5
Cep57	Chid1	Cklf
Cep63	Chka	Cks1b
Cep68	Chkb	Cks2
Cep70	Chm	Clasp1

Clasp2	Cmpk2	Commd1
Clcc1	Cmtm3	Commd10
Clcn2	Cmtm4	Commd2
Clcn3	Cmtm6	Commd3
Clcn4-2	Cnbp	Commd4
Clcn5	Cndp2	Commd5
Clcn6	Cnih	Commd6
Clcn7	Cnih4	Commd7
Cldn12	Cnksr3	Commd8
Cldn4	Cnn2	Commd9
Cldnd2	Cnn3	Comtd1
Clec16a	Cnnm3	Copa
Clec2d	Cnnm4	Copb1
Clec2i	Cno	Copb2
Clic1	Cnot1	Cope
Clic4	Cnot10	Copg
Clic5	Cnot2	Copg2
Clint1	Cnot3	Cops2
Clip1	Cnot4	Cops3
Clip2	Cnot6	Cops4
Clk1	Cnot6l	Cops5
Clk2	Cnot8	Cops6
Clk3	Cnp	Cops7a
Clk4	Cnpy2	Cops7b
Cln3	Cnpy3	Cops8
Cln5	Cnpy4	Copz1
Cln6	Cnr2	Coq10a
Clns1a	Cnrip1	Coq10b
Clp1	Cnst	Coq2
Clpb	Cntd1	Coq3
Clpp	Cntf	Coq4
Clptm1	Cntln	Coq5
Clptm1l	Cntrob	Coq6
Clpx	Cobra1	Coq7
Clspn	Cog1	Coq9
Cltb	Cog2	Coro1a
Cltc	Cog3	Coro1b
Clybl	Cog4	Coro1c
Cmah	Cog5	Coro2b
Cmas	Cog6	Coro7
Cmc1	Cog7	Cotl1
Cml1	Cog8	Cox10
Cmpk1	Col4a3bp	Cox11

Cox15	Creb3l2	Csnk2b
Cox16	Crebbp	Cspp1
Cox17	Crebl2	Csrnp1
Cox18	Crebzf	Csrnp2
Cox19	Creg1	Csrp2bp
Cox4i1	Creld1	Cst3
Cox4nb	Creld2	Cstad
Cox5a	Crem	Cstb
Cox5b	Crip1	Cstf1
Cox6a1	Crip2	Cstf2
Cox6b1	Cript	Cstf2t
Cox6b2	Crk	Cstf3
Cox6c	Crkl	Ctage5
Cox7a2	Crif2	Ctbp1
Cox7a2l	Crif3	Ctbs
Cox7b	Crls1	Ctcf
Cox7c	Crnl1	Ctdp1
Cox8a	Crocc	Ctdsp1
Cpeb2	Crot	Ctdsp2
Cpeb3	Crtap	Ctdspl
Cpeb4	Crtc1	Ctdspl2
Cpne1	Crtc2	Ctnnal1
Cpne3	Crtc3	Ctnnbip1
Cpox	Cry1	Ctnnb1
Cpped1	Cry2	Ctns
Cpsf1	Cryl1	Ctps
Cpsf2	Cryz	Ctps2
Cpsf3	Cs	Ctr9
Cpsf3l	Csda	Ctsa
Cpsf4	Csde1	Ctsb
Cpsf6	Cse1l	Ctsc
Cpsf7	Csf2ra	Ctsd
Cpt1a	Csgalnact1	Ctse
Cpt2	Csgalnact2	Ctsl
Cr1l	Csk	Ctso
Cradd	Csnk1a1	Ctsz
Cramp1l	Csnk1d	Cttn
Crat	Csnk1e	Ctu1
Crb3	Csnk1g1	Ctu2
Crbn	Csnk1g2	Ctxn1
Crcp	Csnk1g3	Cuedc1
Creb1	Csnk2a1	Cuedc2
Creb3	Csnk2a2	Cul1

Cul2	Cyp2u1	D6Wsu116e
Cul3	Cyp39a1	D6Wsu163e
Cul4a	Cyp4f13	D730040F13Rik
Cul5	Cyp4v3	D8Erttd738e
Cul7	Cyp51	D8Erttd82e
Cul9	Cysltr2	D930014E17Rik
Cuta	Cyth1	D930015E06Rik
Cutc	Cyth2	D9Erttd402e
Cux1	Cyth3	Dach2
Cwc15	D030016E14Rik	Dact3
Cwc22	D030056L22Rik	Dad1
Cwc25	D10Bwg1379e	Dag1
Cwc27	D10Jhu81e	Daglb
Cwf19I1	D10Wsu102e	Dak
Cwf19I2	D10Wsu52e	Dalrd3
Cxcr4	D11Wsu47e	Dand5
Cxx1a	D11Wsu99e	Dap
Cxx1b	D130040H23Rik	Dap3
Cxx1c	D14Abb1e	Dapk1
Cxxc1	D15Erttd621e	Dapk3
Cxxc5	D16Erttd472e	Dapp1
Cyb5	D17H6S53E	Dars
Cyb561d1	D17Wsu104e	Dars2
Cyb561d2	D17Wsu92e	Daxx
Cyb5b	D18Erttd653e	Dazap1
Cyb5d1	D19Bwg1357e	Dazap2
Cyb5d2	D19Erttd386e	Dazl
Cyb5r1	D19Erttd737e	Dbf4
Cyb5r3	D19Wsu162e	Dbi
Cyb5r4	D1Bwg0212e	Dbnl
Cyb5rl	D1Erttd622e	Dbp
Cyba	D230025D16Rik	Dbr1
Cybas3	D230037D09Rik	Dbt
Cybrd1	D2Erttd750e	Dcaf10
Cyc1	D2hgdh	Dcaf11
Cycs	D2Wsu81e	Dcaf12
Cyfp2	D330012F22Rik	Dcaf13
Cyhr1	D330028D13Rik	Dcaf15
Cyld	D3Erttd751e	Dcaf17
Cyp20a1	D430042O09Rik	Dcaf5
Cyp2d22	D4Erttd22e	Dcaf6
Cyp2j9	D4Wsu53e	Dcaf7
Cyp2r1	D5Erttd579e	Dcaf8

Dcakd	Ddx26b	Depdc1b
Dck	Ddx27	Depdc5
Dclk2	Ddx28	Dera
Dclre1a	Ddx31	Derl1
Dclre1b	Ddx39	Derl2
Dclre1c	Ddx3x	Derl3
Dcp1a	Ddx41	Det1
Dcp1b	Ddx42	Dexi
Dcp2	Ddx46	Dffa
Dcps	Ddx47	Dffb
Dctd	Ddx49	Dfna5
Dctn1	Ddx5	Dfnb59
Dctn2	Ddx50	Dgat1
Dctn4	Ddx51	Dgat2
Dctn5	Ddx52	Dgcr2
Dctn6	Ddx54	Dgcr8
Dctpp1	Ddx55	Dgka
Dcun1d2	Ddx56	Dgke
Dcun1d3	Ddx58	Dgkg
Dcun1d5	Ddx59	Dgkq
Dda1	Ddx6	Dguok
Ddah2	Ddx60	Dhcr24
Ddb1	Deaf1	Dhcr7
Ddb2	Deb1	Dhdds
Ddhd1	Decr1	Dhdh
Ddhd2	Decr2	Dhfr
Ddi2	Dedd	Dhodh
Ddit3	Dedd2	Dhps
Ddit4	Def6	Dhrs1
Ddost	Def8	Dhrs11
Ddrgk1	Degs1	Dhrs13
Ddt	Degs2	Dhrs3
Ddx1	Dek	Dhrs4
Ddx10	Dem1	Dhrs7
Ddx11	Dennd1a	Dhrs7b
Ddx17	Dennd1b	Dhtkd1
Ddx18	Dennd1c	Dhx15
Ddx19a	Dennd2d	Dhx16
Ddx19b	Dennd3	Dhx29
Ddx20	Dennd4b	Dhx30
Ddx21	Dennd4c	Dhx33
Ddx23	Denr	Dhx34
Ddx24	Depdc1a	Dhx35

Dhx36	Dnajb3	Dock11
Dhx37	Dnajb4	Dock2
Dhx38	Dnajb5	Dock5
Dhx40	Dnajb6	Dock6
Dhx57	Dnajb9	Dohh
Dhx58	Dnajc1	Dok1
Dhx8	Dnajc10	Dok2
Dhx9	Dnajc11	Dolk
Diablo	Dnajc12	Dolpp1
Diap1	Dnajc14	Dom3z
Diap2	Dnajc15	Donson
Diap3	Dnajc16	Dopey1
Dicer1	Dnajc17	Dopey2
Dido1	Dnajc18	Dot1l
Dimt1	Dnajc19	Dpagt1
Dip2a	Dnajc2	Dpcd
Dip2b	Dnajc21	Dpf2
Dip2c	Dnajc24	Dph1
Dirc2	Dnajc27	Dph2
Dis3	Dnajc28	Dph3
Dis3l1	Dnajc3	Dph5
Dis3l2	Dnajc30	Dpm1
Dkc1	Dnajc4	Dpm2
Dlat	Dnajc5	Dpp3
Dld	Dnajc7	Dpp4
Dleu7	Dnajc8	Dpp7
Dlg1	Dnajc9	Dpp8
Dlg4	Dnalc1	Dpp9
Dlgap5	Dnali1	Dpy19l3
Dlst	Dnase1l1	Dpy19l4
Dmap1	Dnase2a	Dpy30
Dmtf1	Dnlz	Dpysl2
Dmxl1	Dnm1l	Dqx1
Dna2	Dnm2	Dr1
Dnahc2	Dnmt1	Dram1
Dnahc8	Dnmt3a	Dram2
Dnaja1	Dnmt3b	Drap1
Dnaja2	Dnpep	Drg1
Dnajb1	Dntt	Drg2
Dnajb11	Dnttip1	Dscc1
Dnajb12	Dnttip2	Dscr3
Dnajb14	Doc2g	Dsel
Dnajb2	Dock10	Dsn1

Dstyk	Dyrk1a	Edem2
Dtd1	Dyrk1b	Edem3
Dtl	Dyrk2	Edf1
Dtnb	Dyrk3	Eea1
Dtnbp1	Dyx1c1	Eed
Dtwd1	Dzip1	Eef1a1
Dtwd2	Dzip3	Eef1b2
Dtx1	E130303B06Rik	Eef1d
Dtx2	E130306D19Rik	Eef1e1
Dtx3	E130308A19Rik	Eef1g
Dtx3l	E130309D02Rik	Eef2
Dtymk	E130311K13Rik	Eef2k
Dus1l	E2f1	Eefsec
Dus3l	E2f2	Eepd1
Dus4l	E2f3	Efcab2
Dusp1	E2f4	Efcab9
Dusp11	E2f5	Efha1
Dusp12	E2f6	Efha2
Dusp16	E2f7	Efhc1
Dusp19	E2f8	Efhd2
Dusp2	E330009J07Rik	Efna4
Dusp22	E430025E21Rik	Efr3a
Dusp23	E4f1	Eftud1
Dusp28	Eaf1	Eftud2
Dusp4	Eaf2	Egln1
Dusp5	Eapp	Egln2
Dusp6	Ears2	Egln3
Dusp7	Ebag9	Egr1
Dut	Ebna1bp2	Ehbp111
Dvl1	Ebp	Ehd1
Dvl2	Ebpl	Ehd3
Dvl3	Ecd	Ehd4
Dym	Ece1	Ehhadh
Dync1h1	Ece2	Ehmt1
Dync1i2	Ech1	Ehmt2
Dync1li1	Echdc1	Ei24
Dync1li2	Echs1	Eid1
Dync2h1	Ecsit	Eif1
Dync2li1	Ect2	Eif1a
Dynll1	Edaradd	Eif1ad
Dynlrb1	Edc3	Eif1ax
Dynlrb2	Edc4	Eif1b
Dynlt3	Edem1	Eif2a

Eif2ak1	Eif6	Enoph1
Eif2ak2	Elac1	Enox2
Eif2ak3	Elac2	Enpp4
Eif2ak4	Elav1	Enpp5
Eif2b1	Elf1	Ensa
Eif2b2	Elf2	Entpd1
Eif2b3	Elf4	Entpd4
Eif2b4	Elk1	Entpd5
Eif2b5	Elk3	Entpd6
Eif2c1	Elk4	Entpd7
Eif2c2	Ell	Eny2
Eif2c3	Ell3	Ep300
Eif2s1	Elmo1	Ep400
Eif2s2	Elmo2	Epb4.1
Eif2s3x	Elmod2	Epb4.1l2
Eif3a	Elmod3	Epc1
Eif3b	Elof1	Epc2
Eif3c	Elov1	Epcam
Eif3d	Elov5	Ephb2
Eif3e	Elov6	Ephb6
Eif3f	Elp2	Epm2aip1
Eif3g	Elp3	Epn1
Eif3h	Elp4	Eprs
Eif3i	Emb	Eps15
Eif3k	Emd	Epsti1
Eif3l	Eme1	Eral1
Eif3m	Eme2	Erap1
Eif4a1	Emg1	Erb2ip
Eif4a2	Emid1	Erb3
Eif4a3	Emilin1	Erc1
Eif4b	Eml3	Erc2
Eif4e	Eml4	Erc3
Eif4e2	Eml5	Erc4
Eif4e3	Emp1	Erc5
Eif4ebp2	Emp3	Erc6
Eif4enif1	Enc1	Erc6l
Eif4g2	Endog	Erc8
Eif4g3	Endou	Erf
Eif4h	Eng	Ergic1
Eif5	Engase	Ergic2
Eif5a	Eno1	Ergic3
Eif5a2	Eno2	Erh
Eif5b	Eno3	Eri1

Eri2	Exoc2	Fahd2a
Eri3	Exoc3	Faim
Erich1	Exoc3l	Fam100a
Erlec1	Exoc4	Fam100b
Erlin1	Exoc5	Fam102b
Erlin2	Exoc6	Fam103a1
Ermp1	Exoc6b	Fam105a
Ern1	Exoc7	Fam105b
Ero1l	Exoc8	Fam108a
Ero1lb	Exog	Fam108b
Erp29	Exosc1	Fam108c
Erp44	Exosc10	Fam109a
Errfi1	Exosc2	Fam109b
Esco1	Exosc3	Fam110a
Esco2	Exosc4	Fam110b
Esd	Exosc5	Fam113a
Esf1	Exosc6	Fam113b
Esm1	Exosc7	Fam114a2
Espl1	Exosc8	Fam116a
Esr1	Exosc9	Fam116b
Esr2	Ext1	Fam117a
Esrra	Ext2	Fam117b
Esyt1	Extl2	Fam118a
Esyt2	Eya3	Fam118b
Etaa1	Ezh1	Fam120a
Etf1	Ezh2	Fam120b
Etfa	Ezr	Fam120c
Etfb	F13a1	Fam122a
Etfdh	F2rl3	Fam122b
Etnk1	F630043A04Rik	Fam123b
Etohi1	F630110N24Rik	Fam125a
Ets2	F8	Fam125b
Etv1	F8a	Fam126a
Etv3	Faah	Fam126b
Etv5	Fabp5	Fam129a
Etv6	Fadd	Fam132b
Evi5l	Fads1	Fam133b
Evpl	Fads2	Fam134a
Ewsr1	Fads6	Fam134b
Exd1	Faf1	Fam134c
Exd2	Faf2	Fam136a
Exo1	Fah	Fam13a
Exoc1	Fahd1	Fam13b

Fam149b	Fam49a	Fanci
Fam151b	Fam49b	Fancl
Fam158a	Fam50a	Fancm
Fam160a2	Fam53a	Fank1
Fam160b1	Fam53b	Far1
Fam160b2	Fam53c	Farp2
Fam161b	Fam54a	Fars2
Fam162a	Fam54b	Farsa
Fam165b	Fam57a	Farsb
Fam167a	Fam58b	Fas
Fam167b	Fam60a	Fasn
Fam168a	Fam63a	Fastk
Fam168b	Fam63b	Fastkd1
Fam172a	Fam64a	Fastkd2
Fam173a	Fam65a	Fastkd3
Fam173b	Fam69a	Fastkd5
Fam174a	Fam69b	Fau
Fam175a	Fam71e1	Fbf1
Fam175b	Fam72a	Fbl
Fam176b	Fam73a	Fbp1
Fam178a	Fam73b	Fbrsl1
Fam179b	Fam76a	Fbxl12
Fam185a	Fam76b	Fbxl14
Fam188a	Fam78a	Fbxl17
Fam188b	Fam82a1	Fbxl18
Fam189b	Fam82a2	Fbxl19
Fam18b	Fam82b	Fbxl20
Fam192a	Fam83d	Fbxl21
Fam193b	Fam83e	Fbxl22
Fam195a	Fam83g	Fbxl3
Fam195b	Fam84b	Fbxl4
Fam199x	Fam86	Fbxl6
Fam20b	Fam92a	Fbxl8
Fam26f	Fam96a	Fbxo10
Fam33a	Fam96b	Fbxo11
Fam35a	Fam98a	Fbxo17
Fam36a	Fam98b	Fbxo18
Fam3a	Fam98c	Fbxo21
Fam3c	Fan1	Fbxo22
Fam40a	Fanca	Fbxo24
Fam40b	Fancb	Fbxo25
Fam45a	Fancd2	Fbxo28
Fam48a	Fancg	Fbxo3

Fbxo30	Fez2	Fmnl3
Fbxo31	Fgd6	Fmo5
Fbxo32	Fgf13	Fmr1
Fbxo33	Fgfr1op	Fn3k
Fbxo34	Fgfr1op2	Fn3krp
Fbxo36	Fgfrl1	Fnbp1
Fbxo38	Fggy	Fnbp4
Fbxo4	Fgr	Fndc3a
Fbxo42	Fh1	Fndc8
Fbxo45	Fhit	Fnip1
Fbxo46	Fhl2	Fnta
Fbxo47	Fhl3	Fntb
Fbxo48	Fhl4	Fosb
Fbxo5	Fhod1	Foxh1
Fbxo6	Fibp	Foxj2
Fbxo7	Ficd	Foxj3
Fbxo8	Fig4	Foxk1
Fbxo9	Figl1	Foxm1
Fbxw10	Fip1l1	Foxn2
Fbxw11	Fis1	Foxo1
Fbxw17	Fitm1	Foxo3
Fbxw2	Fitm2	Foxo4
Fbxw4	Fiz1	Foxp1
Fbxw5	Fkbp15	Foxp4
Fbxw7	Fkbp1a	Foxred1
Fbxw9	Fkbp2	Foxred2
Fcf1	Fkbp3	Fpgt
Fcho1	Fkbp4	Frat2
Fcho2	Fkbp5	Frg1
Fchsd1	Fkbp7	Frmd6
Fchsd2	Fkbp8	Frmd8
Fdft1	Fkbpl	Frs2
Fdps	Fkrp	Frs3
Fdx1	Fktn	Fryl
Fdx1l	Flad1	Fth1
Fdxacb1	Flcn	Ftl1
Fdxr	Fli1	Fto
Fech	Flii	Ftsj1
Fem1a	Flna	Ftsj2
Fem1b	Flot2	Ftsj3
Fem1c	Flt3l	Ftsjd1
Fen1	Flywch2	Ftsjd2
Fermt3	Fmnl1	Fubp1

Fubp3	Gadd45g	Gbp6
Fuca1	Gadd45gip1	Gbp7
Fuca2	Gak	Gbp9
Fuk	Gal3st3	Gca
Fundc1	Galc	Gcap14
Fundc2	Gale	Gcc2
Furin	Galk1	Gcdh
Fus	Galk2	Gcfc1
Fut10	Galm	Gch1
Fut11	Galns	Gclc
Fut8	Galnt1	Gclm
Fuz	Galnt10	Gcn111
Fv1	Galnt11	Gcsh
Fxc1	Galnt12	Gdap2
Fxn	Galnt2	Gde1
Fxr1	Galnt4	Gdf9
Fxr2	Galnt6	Gdi1
Fxyd5	Galnt7	Gdi2
Fyb	Galt	Gdpd1
Fyco1	Gamt	Gemin4
Fyn	Gan	Gemin5
Fyttl1	Ganab	Gemin6
Fzd5	Ganc	Gemin7
Fzr1	Gapdh	Gemin8
G0s2	Gapvd1	Gen1
G2e3	Gar1	Get4
G3bp1	Garnl3	Gfer
G3bp2	Gars	Gfm1
G630016D24Rik	Gart	Gfm2
G630090E17Rik	Gas2	Gfod1
G6pc3	Gas2l3	Gfod2
G6pdx	Gatad1	Gfpt1
Gaa	Gatad2a	Gga1
Gab3	Gatc	Gga2
Gabarap	Gatsl2	Gga3
Gabarapl1	Gba	Ggct
Gabarapl2	Gba2	Ggcx
Gabbr1	Gbas	Ggh
Gabpa	Gbe1	Ggnbp1
Gabpb1	Gbp2	Ggnbp2
Gabpb2	Gbp3	Ggps1
Gabre	Gbp4	Ggt5
Gadd45a	Gbp5	Ggt7

Ggta1	Gmcl1	Golga5
Ghdc	Gmds	Golga7
Ghitm	Gmeb1	Golgb1
Gigyf2	Gmeb2	Golim4
Gimap1	Gmfb	Golph3
Gimap6	Gmfg	Golph3l
Gimap8	Gmip	Golt1b
Gimap9	Gmnn	Gon4l
Gin1	Gmppa	Gopc
Gins1	Gmppb	Gorab
Gins2	Gmpr	Gorasp1
Gins3	Gmpr2	Gorasp2
Gins4	Gmps	Gosr1
Gipc1	Gna11	Gosr2
Git1	Gna12	Got1
Git2	Gna13	Got2
Gja5	Gnai2	Gpaa1
Gk5	Gnai3	Gpatch1
Gla	Gnaq	Gpatch2
Glb1	Gnb1	Gpatch3
Glb1l	Gnb1l	Gpatch4
Glcci1	Gnb2	Gpatch8
Gle1	Gnb2l1	Gpbp1
Glg1	Gnb5	Gpbp1l1
Glipr2	Gng10	Gpc2
Glmn	Gng12	Gpd1l
Glo1	Gng3	Gpd2
Glod4	Gng5	Gphn
Glrx	Gngt2	Gpi1
Glrx2	Gnl1	Gpkow
Glrx3	Gnl3	Gpn1
Glrx5	Gnl3l	Gpn2
Gls	Gnpat	Gpn3
Glt25d1	Gnpda1	Gpr107
Glt8d1	Gnpda2	Gpr108
Gltp	Gnpnat1	Gpr132
Gltpd1	Gnptab	Gpr137
Gltscr2	Gnptg	Gpr137c
Glud1	Gns	Gpr146
Glul	Golga1	Gpr155
Glyctk	Golga2	Gpr157
Glyr1	Golga3	Gpr160
Gm2a	Golga4	Gpr162

Gpr171	Gstcd	Guk1
Gpr172b	Gstk1	Gusb
Gpr174	Gstm1	Gxylt1
Gpr180	Gstm4	Gyg
Gpr19	Gsto2	Gyk
Gpr65	Gstp1	Gys1
Gpr89	Gstt1	Gzf1
Gprasp1	Gstt2	Gzma
Gprasp2	Gstz1	H13
Gps1	Gtdc1	H2-D1
Gps2	Gtf2a1	H2-DMa
Gpsm1	Gtf2a2	H2-K1
Gpsm2	Gtf2b	H2-Ke2
Gpsm3	Gtf2e1	H2-Ke6
Gpt	Gtf2e2	H2-M3
Gpt2	Gtf2f1	H2-Oa
Gramd1a	Gtf2f2	H2-Q2
Gramd4	Gtf2h1	H2-T10
Grap	Gtf2h2	H2-T22
Grap2	Gtf2h3	H2-T23
Grb2	Gtf2h4	H2-T24
Grcc10	Gtf2h5	H2afj
Grhpr	Gtf2i	H2afv
Gria3	Gtf2ird1	H2afx
Grina	Gtf2ird2	H2afy
Gripap1	Gtf3a	H2afz
Grk4	Gtf3c1	H3f3a
Grk5	Gtf3c2	H3f3b
Grk6	Gtf3c3	H6pd
Grlf1	Gtf3c4	Habp4
Grn	Gtf3c5	Hace1
Grpel1	Gtf3c6	Hacl1
Grpel2	Gtl3	Hadh
Grsf1	Gtpbp1	Hadha
Gsdmd	Gtpbp10	Hadhb
Gse1	Gtpbp2	Hagh
Gsg2	Gtpbp3	Haghl
Gsk3a	Gtpbp4	Harbi1
Gsk3b	Gtpbp5	Hars
Gsn	Gtpbp6	Hars2
Gspt1	Gtpbp8	Hat1
Gsr	Gtse1	Haus1
Gss	Guf1	Haus2

Haus3	Hectd2	Hira
Haus4	Hectd3	Hirip3
Haus5	Heg1	Hist1h1a
Haus6	Helb	Hist1h1b
Haus7	Hells	Hist1h1c
Haus8	Helq	Hist1h1d
Hax1	Helz	Hist1h1e
Hbp1	Hemk1	Hist1h2ab
Hbs1l	Herc1	Hist1h2ac
Hccs	Herc2	Hist1h2ae
Hcfc1	Herc3	Hist1h2af
Hcfc1r1	Herc4	Hist1h2ag
Hcfc2	Herc6	Hist1h2ai
Hcls1	Herpud1	Hist1h2ak
Hcn3	Herpud2	Hist1h2an
Hcst	Hes5	Hist1h2bb
Hdac1	Hes6	Hist1h2bc
Hdac10	Hexa	Hist1h2be
Hdac11	Hexb	Hist1h2bf
Hdac2	Hexdc	Hist1h2bg
Hdac3	Hexim1	Hist1h2bh
Hdac5	Hexim2	Hist1h2bj
Hdac6	Hfe	Hist1h2bk
Hdac7	Hfm1	Hist1h2bl
Hdac8	Hgs	Hist1h2bm
Hddc2	Hgsnat	Hist1h2bn
Hddc3	Hhat	Hist1h2bp
Hdgf	Hiatl1	Hist1h3a
Hdgfrp2	Hibadh	Hist1h3c
Hdhd2	Hibch	Hist1h3e
Hdhd3	Hic2	Hist1h3f
Hdlbp	Hif1an	Hist1h3g
Heatr1	Higd1a	Hist1h3h
Heatr2	Higd2a	Hist1h3i
Heatr3	Hinfp	Hist1h4a
Heatr5a	Hint1	Hist1h4b
Heatr5b	Hint2	Hist1h4c
Heatr6	Hint3	Hist1h4d
Heatr7a	Hip1	Hist1h4f
Hebp1	Hip1r	Hist1h4h
Hebp2	Hipk1	Hist1h4i
Heca	Hipk2	Hist1h4j
Hectd1	Hipk3	Hist1h4k

Hist1h4m	Hnrnpab	Hsd11
Hist2h2ab	Hnrnpc	Hsd12
Hist2h2ac	Hnrnpd	Hsf1
Hist2h2bb	Hnrnpf	Hsf2
Hist2h2be	Hnrnph1	Hsf2bp
Hist2h3b	Hnrnph2	Hsh2d
Hist2h3c1	Hnrnph3	Hsp90ab1
Hist2h4	Hnrnpk	Hsp90b1
Hist3h2a	Hnrnpl	Hspa13
Hist3h2ba	Hnrnpm	Hspa14
Hist4h4	Hnrnpr	Hspa4
Hivep1	Hnrnpu	Hspa4l
Hivep2	Hnrnpul1	Hspa5
Hivep3	Hnrnpul2	Hspa8
Hjurp	Hnrpdl	Hspa9
Hk2	Hnrpll	Hspb11
Hlcs	Homer1	Hspb6
Hlff	Homer3	Hspb9
Hmbox1	Hook1	Hspbap1
Hmbs	Hook2	Hspbpb1
Hmg20a	Hook3	Hspd1
Hmg20b	Hp1bp3	Hspe1
Hmga1	Hpcal1	Hsph1
Hmgb1	Hprt	Htatip2
Hmgb3	Hps1	Htatsf1
Hmgcl	Hps3	Htra2
Hmgcr	Hps4	Htt
Hmgcs2	Hps5	Hus1
Hmgn1	Hps6	Huwe1
Hmgn2	Hpse	Hyal2
Hmgn5	Hras1	Hyal3
Hmgxb3	Hrh2	Hyi
Hmgxb4	Hrsp12	Hyls1
Hmha1	Hs2st1	Hyou1
Hmmr	Hs6st1	lah1
Hmox1	Hsbp1	lars
Hmox2	Hscb	lars2
Hn1	Hsd11b1	Icam1
Hn1l	Hsd17b10	Icam2
Hnrnpa0	Hsd17b11	Ick
Hnrnpa1	Hsd17b12	Icmt
Hnrnpa2b1	Hsd17b4	Ict1
Hnrnpa3	Hsd17b7	Id3

ldh1	lkbkap	Impdh2
ldh2	lkbkb	Inadl
ldh3a	lkbke	Inca1
ldh3b	lkbkg	Incenp
ldh3g	lkzf1	Ing1
ldi1	lkzf2	Ing2
lds	lkzf3	Ing3
ldua	lkzf4	Ing4
ler2	lkzf5	Ing5
ler3ip1	ll10ra	Inhba
ler5	ll10rb	Ino80
lffo1	ll12rb1	Ino80b
lfi203	ll12rb2	Ino80c
lfi2711	ll15ra	Ino80d
lfi35	ll17ra	Ino80e
lfih1	ll17rb	Inpp1
lfit2	ll17rc	Inpp4a
lfnar1	ll17re	Inpp5a
lfnar2	ll1rap	Inpp5b
lfngr1	ll1rl2	Inpp5d
lfngr2	ll20ra	Inpp5e
lfrd1	ll21r	Inpp5f
lfrd2	ll27ra	Inpp5k
lft122	ll2rg	Insig1
lft140	ll3ra	Insl6
lft172	ll4i1	Insr
lft20	ll4ra	Ints1
lft27	ll6st	Ints10
lft46	llf2	Ints12
lft52	llf3	Ints2
lft57	llk	Ints3
lft74	llkap	Ints4
lft80	llvbl	Ints5
lft81	lmp1l	Ints6
lft88	lmp2l	Ints7
lgbp1	lmmt	Ints8
lgf2r	lmp3	Ints9
lghmbp2	lmp4	Invs
lgsf10	lmpa1	lp6k1
lgsf3	lmpa2	lpmk
lgtp	lmpact	lpo11
lk	lmpad1	lpo13
lkbip	lmpdh1	lpo4

lpo5
lpo7
lpo8
lpo9
lpp
lppk
lqcb1
lqcc
lqcd
lqce
lqcg
lqck
lqgap1
lqgap2
lqgap3
lrak1
lrak1bp1
lrak2
lrak4
lreb2
lrf1
lrf2
lrf2bp1
lrf2bp2
lrf3
lrf7
lrf9
lrgm1
lrgm2
lrgq
lrs2
lsca1
lsca2
lscu
lsg15
lsg20
lsg20l2
lsoc1
lsoc2b
lspd
lsy1
lsyna1
ltch

ltfg1
ltfg2
ltfg3
ltga4
ltga5
ltgal
ltgav
ltgb1
ltgb1bp1
ltgb2
ltgb3
ltgb3bp
ltgb4
ltih5
ltk
ltm2a
ltm2b
ltm2c
ltpa
ltpk1
ltpkb
ltpkc
ltpr1
ltpr2
ltpr3
ltprp
ltprpl1
ltsn2
lvd
lvns1abp
lws1
lzumo4
jagn1
jak1
jak2
jak3
jakmip1
jarid2
jhdm1d
jmjd1c
jmjd4
jmjd5
jmjd6

Jmjd8
Jmy
Josd1
Josd2
Jrk
Jtb
Jun
Junb
Jund
Kank2
Kars
Kat2a
Kat2b
Kat5
Katna1
Katnal1
Katnal2
Katnb1
Kbtbd11
Kbtbd2
Kbtbd3
Kbtbd4
Kbtbd7
Kbtbd8
Kcmf1
Kcna3
Kcnab2
Kcnh2
Kcnip2
Kcnk5
Kcnmb4
Kcnn4
Kcnq5
Kctd1
Kctd10
Kctd11
Kctd12b
Kctd13
Kctd17
Kctd2
Kctd20
Kctd21
Kctd3

Kctd5	Kif2c	Klh24
Kctd6	Kif3a	Klh25
Kctd7	Kif3b	Klh26
Kctd9	Kif3c	Klh28
Kdelc1	Kif4	Klh3
Kdelr2	Kif5b	Klh36
Kdm1a	Kif9	Klh4
Kdm1b	Kifap3	Klh5
Kdm2a	Kifc1	Klh6
Kdm2b	Kifc2	Klh7
Kdm3a	Kin	Klh8
Kdm3b	Kiss1r	Klh9
Kdm4a	Klc1	Klraq1
Kdm4b	Klc3	Kntc1
Kdm4d	Klc4	Kpna2
Kdm5a	Klf1	Kpna3
Kdm5b	Klf10	Kpna4
Kdm5c	Klf11	Kpna6
Kdm6a	Klf13	Kpnb1
Kdm6b	Klf16	Kptn
Kdsr	Klf3	Kras
Keap1	Klf6	Krba1
Khdrbs1	Klf7	Krcc1
Khk	Klf8	Kremen1
Khyn	Klhdc1	Kri1
Khsrp	Klhdc10	Krit1
Kidins220	Klhdc2	Krr1
Kif11	Klhdc3	Krt10
Kif13b	Klhdc4	Krtcap2
Kif14	Klhdc5	Krtcap3
Kif15	Klhdc8b	Ksr1
Kif16b	Klhdc9	Kti12
Kif17	Klh10	L2hgdh
Kif18a	Klh11	L3mbtl2
Kif18b	Klh12	L3mbtl3
Kif1c	Klh15	I7Rn6
Kif20a	Klh17	Lace1
Kif20b	Klh18	Lactb
Kif21b	Klh2	Lactb2
Kif22	Klh20	Lage3
Kif23	Klh21	Lamp1
Kif24	Klh22	Lamp2
Kif2a	Klh23	Lancl1

Lancl2	Leng8	LmIn
Lap3	Leo1	Lmna
Laptm4a	Lepre1	Lmnb1
Laptm4b	Leprel2	Lmnb2
Laptm5	Leprot	Lmo4
Larp1	Leprotl1	Lnp
Larp1b	Letm1	Lnpep
Larp4	Letm2	Lnx1
Larp4b	Letmd1	Lnx2
Larp7	Lgals1	Loh12cr1
Lars	Lgals3bp	Lonp1
Lars2	Lgals9	Lonp2
Las1l	Lgmn	Lonrf1
Lasp1	Lhpp	Loxl3
Lass2	Lias	Lpar2
Lass4	Lig1	Lpar4
Lass5	Lig3	Lpar6
Lass6	Lig4	Lpcat1
Lat	Lima1	Lpcat3
Lax1	Limd1	Lpcat4
Layn	Limd2	Lpgat1
Lbh	Limk1	Lphn1
Lbr	Limk2	Lpin1
Lca5	Lims1	Lpin2
Lck	Lin37	Lpp
Lclat1	Lin54	Lpxn
Lcmt1	Lin7c	Lrba
Lcmt2	Lin9	Lrch1
Lcor	Lingo4	Lrch3
Lcorl	Lipa	Lrch4
Lcp1	Lipe	Lrdd
Lcp2	Lipt1	Lrfn4
Ldb1	Lipt2	Lrguk
Ldhb	Litaf	Lrig1
Ldlr	Llgl1	Lrig2
Ldlrad3	Llgl2	Lrmp
Ldoc1l	Llph	Lrp1
Lect1	Lman2	Lrp10
Lef1	Lman2l	Lrp12
Lekr1	Lmbr1l	Lrp2bp
Lemd2	Lmbrd1	Lrp5
Lemd3	Lmbrd2	Lrp6
Leng1	Lmf2	Lrp8

Lrpap1	Lsm14a	Lzts2
Lrpapr	Lsm14b	M6pr
Lrrc1	Lsm2	Macrocl
Lrrc14	Lsm3	Mad111
Lrrc2	Lsm4	Mad211
Lrrc20	Lsm6	Mad211bp
Lrrc23	Lsm7	Madd
Lrrc24	Lsmd1	Maea
Lrrc27	Lsp1	Maf1
Lrrc28	Lss	Maff
Lrrc29	Lst1	Mafg
Lrrc33	Lta4h	Mafk
Lrrc40	Ltb	Mageb3
Lrrc41	Ltc4s	Maged1
Lrrc42	Ltv1	Maged2
Lrrc45	Luc7l	Magee1
Lrrc46	Luc7l2	Magee2
Lrrc47	Luc7l3	Magi3
Lrrc48	Lxn	Magoh
Lrrc49	Ly6d	Magt1
Lrrc50	Ly6e	Mak16
Lrrc51	Ly6k	Malt1
Lrrc56	Ly75	Maml1
Lrrc57	Ly9	Maml3
Lrrc58	Ly96	Man1a
Lrrc59	Lyar	Man1a2
Lrrc61	Lyl1	Man1b1
Lrrc63	Lynx1	Man2a1
Lrrc8a	Lypla1	Man2a2
Lrrc8b	Lypla2	Man2b1
Lrrc8c	Lypla1	Man2b2
Lrrc8d	Lyrml	Man2c1
Lrrc9	Lyrml2	Manba
Lrrcc1	Lyrml4	Manbal
Lrrfip2	Lyrml5	Manea
Lrrk2	Lyrml7	Manf
Lrsam1	Lysmd1	Mansc1
Lrwd1	Lysmd3	Maoa
Lsg1	Lysmd4	Map1lc3a
Lsm1	Lyst	Map1lc3b
Lsm10	Lzic	Map2k1
Lsm11	Lztl1	Map2k2
Lsm12	Lztr1	Map2k3

Map2k4	Marcks	Mcf2l
Map2k5	Marcks1	Mcfd2
Map2k6	Mark2	Mcl1
Map2k7	Mark3	Mcm10
Map3k1	Mark4	Mcm2
Map3k10	Mars	Mcm3
Map3k11	Mars2	Mcm3ap
Map3k12	Mast2	Mcm4
Map3k14	Mast3	Mcm5
Map3k15	Mastl	Mcm6
Map3k2	Mat2a	Mcm7
Map3k3	Mat2b	Mcm8
Map3k4	Matn2	Mcm9
Map3k5	Matr3	Mcoln1
Map3k6	Mavs	Mcoln2
Map3k7	Max	Mcph1
Map3k8	Maz	Mcrs1
Map4k1	Mbd1	Mctp2
Map4k2	Mbd2	Mcts1
Map4k3	Mbd3	Mdc1
Map4k4	Mbd4	Mdfic
Map4k5	Mbd5	Mdh1
Mapk1	Mbd6	Mdh2
Mapk14	Mbip	Mdm1
Mapk1ip1	Mblac1	Mdm2
Mapk1ip1l	Mblac2	Mdm4
Mapk3	Mbnl1	Mdn1
Mapk6	Mbnl2	Mdp1
Mapk7	Mbnl3	Me2
Mapk8	Mboat1	Me3
Mapk8ip3	Mboat2	Mea1
Mapk9	Mboat4	Meaf6
Mapkap1	Mboat7	Mecp2
Mapkapk2	Mbp	Mecr
Mapkapk3	Mbtd1	Med1
Mapkapk5	Mbtps1	Med10
Mapkbp1	Mbtps2	Med11
Mapre1	Mcart1	Med12
40238	Mcart6	Med13
40239	Mcat	Med13l
40241	Mccc1	Med14
40242	Mccc2	Med15
40243	Mcee	Med16

Med17	Mettl8	Mier2
Med18	Mettl9	Mier3
Med19	Mex3a	Mif
Med20	Mex3c	Mif4gd
Med21	Mex3d	Miip
Med22	Mfap1a	Mina
Med23	Mfap1b	Mink1
Med24	Mfap3	Minpp1
Med25	Mff	Mios
Med26	Mfge8	Mipep
Med27	Mfhas1	Mipol1
Med28	Mfn1	Mis12
Med29	Mfn2	Mitd1
Med30	Mfng	Mitf
Med31	Mfsd1	Mki67ip
Med4	Mfsd10	Mkks
Med6	Mfsd11	Mkl1
Med7	Mfsd2a	Mkl2
Med8	Mfsd3	Mkln1
Med9	Mfsd5	Mknk1
Mef2a	Mfsd6	Mknk2
Mef2b	Mfsd7b	Mkrn1
Mef2d	Mfsd8	Mkrn2
Megf9	Mfsd9	Mkrn3
Melk	Mga	Mks1
Memo1	Mgat1	Mlec
Men1	Mgat2	Mlf1ip
Mepce	Mgat4a	Mlf2
Mesdc1	Mgat4b	Mlh1
Mesdc2	Mgat5	Mlh3
Metap1	Mgea5	Mkl
Metap2	Mgmt	Mll1
Metrn	Mgrn1	Mll2
Mettl10	Mgst2	Mll3
Mettl11a	Mgst3	Mll5
Mettl13	Mia1	Mllt1
Mettl14	Mib1	Mllt10
Mettl2	Mib2	Mllt11
Mettl3	Mical1	Mllt3
Mettl4	Micall1	Mllt6
Mettl5	Mid1ip1	Mlst8
Mettl6	Midn	Mlx
Mettl7a1	Mier1	Mlxip

Mlycd	Mppe1	Mrpl4
Mmaa	Mprip	Mrpl40
Mmab	Mpst	Mrpl41
Mmachc	Mpv171	Mrpl42
Mmadhc	Mpv1712	Mrpl43
Mmgt1	Mpz11	Mrpl44
Mms19	Mpz13	Mrpl45
Mnat1	Mr1	Mrpl46
Mnd1	Mre11a	Mrpl47
Mns1	Mrfap1	Mrpl48
Mnt	Mrgpre	Mrpl49
Moap1	Mri1	Mrpl50
Mocos	Mrm1	Mrpl51
Mocs1	Mrp63	Mrpl52
Mocs2	Mrpl1	Mrpl53
Mocs3	Mrpl10	Mrpl54
Mogs	Mrpl11	Mrpl55
Mon1a	Mrpl12	Mrpl9
Mon1b	Mrpl13	Mrps10
Mon2	Mrpl14	Mrps11
Morc2a	Mrpl15	Mrps12
Morc3	Mrpl16	Mrps14
Morf4l1	Mrpl17	Mrps15
Morf4l2	Mrpl18	Mrps16
Morn1	Mrpl19	Mrps17
Morn2	Mrpl2	Mrps18a
Morn5	Mrpl20	Mrps18b
Mosc2	Mrpl21	Mrps18c
Mospd1	Mrpl22	Mrps2
Mospd2	Mrpl23	Mrps21
Mospd3	Mrpl24	Mrps22
Mov10	Mrpl27	Mrps23
Mpdu1	Mrpl28	Mrps25
Mphosph10	Mrpl3	Mrps26
Mphosph6	Mrpl30	Mrps27
Mphosph8	Mrpl32	Mrps28
Mphosph9	Mrpl33	Mrps30
Mpi	Mrpl34	Mrps31
Mpnd	Mrpl35	Mrps33
Mpp1	Mrpl36	Mrps34
Mpp5	Mrpl37	Mrps35
Mpp6	Mrpl38	Mrps36
Mpp7	Mrpl39	Mrps5

Mrps6	Mthfd1	Mxd4
Mrps7	Mthfd11	Mxi1
Mrps9	Mthfd2	Mxra7
Mrrf	Mthfd21	Mxra8
Mrs2	Mthfr	Myb
Mrto4	Mthfsd	Mybbp1a
Ms4a6b	Mtif2	Mybl1
Msh2	Mtif3	Mybl2
Msh3	Mtl5	Myc
Msh5	Mtm1	Mycbp
Msh6	Mtmr1	Mycbp2
Msi2	Mtmr10	Myd88
Msl1	Mtmr12	Myef2
Msl2	Mtmr14	Myeov2
Msl3	Mtmr2	Myg1
Msl3l2	Mtmr3	Myh9
Msn	Mtmr4	Myl12b
Msrb2	Mtmr6	Myl4
Mst1	Mtmr9	Myl6b
Msto1	Mto1	Mylip
Mta1	Mtor	Mylpf
Mta2	Mtpap	Mynn
Mta3	Mtpn	Myo10
Mtap	Mtr	Myo18a
Mtap1s	Mtrf1	Myo19
Mtap4	Mtrf11	Myo1c
Mtap7d1	Mtrr	Myo1g
Mtap7d3	Mtss1	Myo5a
Mtap9	Mtx1	Myo6
Mtbp	Mtx2	Myo7a
Mtch1	Mtx3	Myo9a
Mtch2	Mudeng	Myo9b
Mtcp1	Mul1	Myof
Mtdh	Mum1	Mysm1
Mterf	Mus81	Myst1
Mterfd1	Mut	Myst2
Mterfd2	Muted	Myst3
Mterfd3	Mutyh	Mzf1
Mtf1	Mvd	Mzt1
Mtf2	Mvk	Mzt2
Mtfmt	Mvp	N4bp1
Mtfr1	Mxd1	N4bp2
Mtg1	Mxd3	N4bp211

N4bp2l2	Nat15	Ndrg2
N6amt1	Nat2	Ndrg3
N6amt2	Nat6	Ndst1
Naa10	Nat9	Ndufa1
Naa15	Nbeal1	Ndufa10
Naa16	Nbeal2	Ndufa11
Naa20	Nbn	Ndufa12
Naa25	Nbr1	Ndufa13
Naa30	Ncald	Ndufa2
Naa35	Ncapd2	Ndufa3
Naa38	Ncapd3	Ndufa4
Naa50	Ncapg	Ndufa5
Naaa	Ncapg2	Ndufa6
Nab1	Ncaph	Ndufa7
Nab2	Ncaph2	Ndufa8
Naca	Ncbp1	Ndufa9
Nacc1	Ncbp2	Ndufab1
Nadk	Ncdn	Ndufaf1
Nadsyn1	Nceh1	Ndufaf2
Nae1	Nck1	Ndufaf3
Naf1	Nck2	Ndufaf4
Naga	Nckap1l	Ndufb10
Nagk	Nckap5l	Ndufb11
Naglu	Nckipsd	Ndufb2
Nagpa	Ncl	Ndufb3
Naif1	Ncln	Ndufb4
Nampt	Ncoa1	Ndufb5
Nanos1	Ncoa2	Ndufb6
Nans	Ncoa3	Ndufb7
Nap1l1	Ncoa4	Ndufb8
Nap1l3	Ncoa5	Ndufb9
Nap1l4	Ncoa6	Ndufc1
Napa	Ncoa7	Ndufc2
Napb	Ncor1	Ndufs1
Napepld	Ncor2	Ndufs2
Napg	Ncstn	Ndufs3
Narf	Ndc80	Ndufs4
Narfl	Nde1	Ndufs5
Narg2	Ndfip1	Ndufs6
Nars	Ndfip2	Ndufs7
Nars2	Ndnl2	Ndufs8
Nasp	Ndor1	Ndufv1
Nat10	Ndrg1	Ndufv2

Ndufv3	Nfkbiz	Nme1
Necab3	Nfrkb	Nme2
Necap1	Nfs1	Nme3
Necap2	Nfu1	Nme4
Nedd1	Nfx1	Nme6
Nedd4	Nfxl1	Nme7
Nedd4l	Nfya	Nmi
Nedd9	Nfyb	Nmnat1
Nefh	Ngdn	Nmral1
Neil1	Ngfrap1	Nmt1
Neil3	Ngly1	Nmt2
Nek1	Ngrn	Nob1
Nek2	Nhlrc1	Noc3l
Nek3	Nhlrc2	Noc4l
Nek4	Nhlrc3	Nod1
Nek6	Nhp2	Nol10
Nek7	Nhp2l1	Nol11
Nek8	Nicn1	Nol12
Nek9	Nif3l1	Nol6
Nelf	Nin	Nol7
Nenf	Ninj1	Nol8
Net1	Ninl	Nol9
Neto2	Nip7	Nolc1
Neu1	Nipa2	Nom1
Neu3	Nipal1	Nomo1
Neurl2	Nipal3	Nono
Neurl4	Nipbl	Nop10
Nf1	Nipsnap1	Nop14
Nf2	Nipsnap3b	Nop16
Nfat5	Nisch	Nop2
Nfatc2ip	Nit1	Nop56
Nfatc3	Nit2	Nop58
Nfe2	Nkap	Nosip
Nfe2l1	Nkiras1	Notch1
Nfe2l2	Nkiras2	Notch3
Nfic	Nkrf	Noxo1
Nfkb1	Nktr	Npat
Nfkb2	Nle1	Npc1
Nfkbia	Nlk	Npc2
Nfkbib	Nlrc3	Npepl1
Nfkbid	Nlrx1	Npepps
Nfkbie	Nmb	Nphp1
Nfkbil1	Nmd3	Nphp3

Nphp4	Nsun4	Nufip1
Nphs2	Nsun5	Nufip2
Npl	Nsun6	Numa1
Nploc4	Nsun7	Numb
Npm1	Nt5c	Numbl
Npm3	Nt5c2	Nup107
Nprl2	Nt5c3	Nup133
Nprl3	Nt5c3l	Nup153
Nptn	Nt5dc1	Nup155
Nptxr	Nt5dc3	Nup160
Nqo2	Nt5m	Nup188
Nr1d1	Ntan1	Nup205
Nr1d2	Nthl1	Nup210
Nr1h2	Nub1	Nup214
Nr1h3	Nubp1	Nup35
Nr2c1	Nubp2	Nup37
Nr2c2	Nubpl	Nup43
Nr2c2ap	Nucb1	Nup50
Nr3c1	Nucb2	Nup54
Nr4a1	Nucks1	Nup62
Nrarp	Nudc	Nup85
Nras	Nudcd1	Nup88
Nrbf2	Nudcd2	Nup93
Nrbp1	Nudcd3	Nup98
Nrd1	Nudt1	Nupl1
Nrf1	Nudt12	Nupl2
Nrg2	Nudt13	Nus1
Nrgn	Nudt14	Nusap1
Nrip1	Nudt16	Nutf2
Nrm	Nudt16l1	Nvl
Nrp1	Nudt18	Nwd1
Nsa2	Nudt19	Nxf1
Nsd1	Nudt2	Nxn
Nsdhl	Nudt21	Nxt1
Nsf	Nudt22	Nxt2
Nsfl1c	Nudt3	Oas1b
Nsg2	Nudt4	Oas1c
Nsl1	Nudt5	Oasl1
Nsmaf	Nudt6	Oat
Nsmce1	Nudt7	Oaz1
Nsmce2	Nudt8	Obfc1
Nsun2	Nudt9	Obfc2a
Nsun3	Nuf2	Obfc2b

Ocel1	Osgep	Paics
Ociad1	Osgepl1	Paip1
Ociad2	Osgin2	Paip2
Ocrl	Osm	Paip2b
Odc1	Ost4	Pak1
Odf2	Ostc	Pak1ip1
Odf2l	Ostf1	Pak2
Odf3b	Otub1	Pak4
Ofd1	Otud1	Pak6
Ogdh	Otud3	Palb2
Ogdhl	Otud4	Palm
Ogfod1	Otud5	Pam
Ogfod2	Otud6b	Pan2
Ogfr	Otud7b	Pan3
Ogfrl1	Ovca2	Pank1
Ogg1	Oxa1l	Pank2
Ogt	Oxct1	Pank3
Oip5	Oxnad1	Pank4
Olfml2a	Oxr1	Panx1
Oma1	Oxsm	Paax
Opa1	Oxsr1	Papd4
Opa3	P2rx3	Papd5
Opn3	P2rx4	Papd7
Orai1	P2ry10	Papolg
Orai2	P4ha1	Papss1
Orai3	P4hb	Papss2
Oraov1	P4htm	Paqr3
ORF19	Pa2g4	Paqr6
ORF61	Pabpc1	Paqr7
Ormdl1	Pabpn1	Paqr8
Ormdl2	Pacrg	Pard6a
Ormdl3	Pacrgl	Pard6g
Os9	Pacs1	Parg
Osbp	Pacs2	Park7
Osbp11	Pacsin1	Parl
Osbp12	Pacsin2	Parn
Osbp13	Padi2	Parp1
Osbp15	Paf1	Parp10
Osbp17	Pafah1b1	Parp12
Osbp18	Pafah1b2	Parp14
Osbp19	Pafah1b3	Parp16
Oscar	Pafah2	Parp2
Oscp1	Pag1	Parp3

Parp4	Pcyt2	Pdxdc1
Parp6	Pdap1	Pdxk
Parp8	Pdcd1	Pd xp
Parp9	Pdcd10	Pd zd11
Pars2	Pdcd11	Pd zd4
Parvg	Pdcd2	Pd zd8
Pask	Pdcd2l	Pea15a
Pate2	Pdcd4	Pe bp1
Patl1	Pdcd5	Pec am1
Patz1	Pdcd6	Peli1
Paxip1	Pdcd6ip	Pelo
Pbk	Pdcd7	Pelp1
Pbrm1	Pdcl	Pemt
Pbx2	Pdcl3	Peo1
Pbx4	Pddc1	Pepd
Pbxip1	Pde12	Per1
Pcbd2	Pde3b	Per2
Pcbp1	Pde5a	Per3
Pcbp2	Pde6d	Pes1
Pcbp3	Pde7a	Pet112l
Pcca	Pdgfrb	Pex1
Pccb	Pdha1	Pex10
Pcf11	Pd hb	Pex11a
Pcgf1	Pd hx	Pex11b
Pcgf3	Pdia3	Pex11c
Pcgf5	Pdia4	Pex12
Pcgf6	Pdia6	Pex13
Pcid2	Pdik1l	Pex14
Pcif1	Pdk1	Pex16
Pck2	Pdk2	Pex19
Pcm1	Pdk3	Pex26
Pcmt1	Pdlim1	Pex3
Pcmtd1	Pdlim2	Pex5
Pcmtd2	Pdlim5	Pex6
Pcna	Pdlim7	Pex7
Pcnp	Pdp1	Pfas
Pcnt	Pdp2	Pfdn1
Pcnx	Pdpk1	Pfdn2
Pcnxl3	Pdrg1	Pfdn5
Pcsk7	Pds5a	Pfkfb1
Pctp	Pds5b	Pfkfb2
Pcyox1	Pdss1	Pfkfb3
Pcyt1a	Pdss2	Pfkfb4

Pfkl	Phf20	Pigp
Pfkm	Phf20l1	Pigq
Pfkp	Phf23	Pigs
Pfn1	Phf5a	Pigt
Pfn4	Phf6	Pigu
Pgam1	Phf7	Pigv
Pgam5	Phf8	Pigw
Pgap1	Phgdh	Pigx
Pgap2	Phip	Pigy
Pgap3	Phka2	Pigyl
Pgbd1	Phkb	Pih1d1
Pgcp	Phkg1	Pih1d2
Pgd	Phkg2	Pik3ap1
Pggt1b	Phlda1	Pik3c2b
Pgk1	Phlda3	Pik3c3
Pgls	Phlpp2	Pik3ca
Pglyrp2	Phospho2	Pik3cg
Pgm1	Phrf1	Pik3ip1
Pgm2	Phtf1	Pik3r1
Pgm2l1	Phtf2	Pik3r2
Pgm3	Phyh	Pik3r3
Pgp	Pi4k2a	Pik3r4
Pgpep1	Pi4k2b	Pik3r5
Pgpep1l	Pi4ka	Pikfyve
Pgrmc1	Pi4kb	Pim1
Pgrmc2	Pias1	Pim2
Pgs1	Pias2	Pim3
Phactr2	Pias3	Pin1
Phactr4	Pias4	Pin4
Phax	Pibf1	Pink1
Phb	Picalm	Pinx1
Phb2	Pick1	Pion
Phc1	Pif1	Pip4k2a
Phc2	Piga	Pip4k2b
Phc3	Pigb	Pip4k2c
Phf1	Pigc	Pip5k1a
Phf12	Pigf	Pip5k1b
Phf13	Pigg	Pip5k1c
Phf14	Pigh	Pisd
Phf15	Pigk	Pitpna
Phf16	Pigl	Pitpnb
Phf19	Pigm	Pitpnc1
Phf2	Pigo	Pitpnm1

Pitpnm2	Plekhj1	Pnpla2
Pitrm1	Plekhm1	Pnpla6
Pja1	Plekhm2	Pnpla7
Pja2	Plekhm3	Pnpo
Pkd1	Plekho1	Pnpt1
Pkd1l3	Plekho2	Pnrc2
Pkd2l2	Plin2	Poc1a
Pkig	Plin3	Poc1b
Pkm2	Plk1	Poc5
Pkn1	Plk1s1	Pofut1
Pkn3	Plk3	Pofut2
Pknox1	Plk4	Pogk
Pkp4	Plod1	Pogz
Pla2g12a	Plod2	Pola1
Pla2g15	Plod3	Pola2
Pla2g16	Plp2	Polb
Pla2g4a	Plrg1	Pold1
Pla2g4b	Pls3	Pold2
Pla2g6	Plscr1	Pold3
Plaa	Plscr3	Pold4
Plac8	Plscr4	Poldip2
Plagl2	Plxdc1	Poldip3
Plcb2	Plxdc2	Pole
Plcb3	Plxna3	Pole2
Plcb4	Plxnb1	Pole3
Plcg1	Plxnd1	Polg
Plcl1	Pmepa1	Polg2
Plcl2	Pmf1	Polh
Plcx1	Pml	Poli
Plcx2	Pmm1	Polk
Plid3	Pmm2	Poll
Plidn	Pmpca	Polm
Plek	Pmpcb	Poln
Plekha1	Pms1	Polq
Plekha2	Pms2	Polr1a
Plekha3	Pmvk	Polr1b
Plekha4	Pnck	Polr1c
Plekha5	Pnkd	Polr1d
Plekha7	Pnkp	Polr1e
Plekha2	Pnma1	Polr2a
Plekha2	Pnn	Polr2b
Plekha2	Pno1	Polr2c
Plekha2	Pnp	Polr2d

Polr2e	Ppdpf	Ppp1r3b
Polr2f	Ppfibp1	Ppp1r3f
Polr2g	Ppfibp2	Ppp1r7
Polr2h	Pphln1	Ppp1r8
Polr2i	Ppia	Ppp1r9b
Polr2j	Ppib	Ppp2ca
Polr2k	Ppid	Ppp2cb
Polr3a	Ppie	Ppp2r1a
Polr3b	Ppif	Ppp2r1b
Polr3c	Ppig	Ppp2r2a
Polr3d	Ppih	Ppp2r2d
Polr3e	Ppil1	Ppp2r3c
Polr3f	Ppil2	Ppp2r4
Polr3g	Ppil3	Ppp2r5a
Polr3h	Ppil4	Ppp2r5b
Polr3k	Ppil6	Ppp2r5c
Polrmt	Ppip5k2	Ppp2r5d
Pom121	Ppm1a	Ppp2r5e
Pomgnt1	Ppm1b	Ppp3ca
Pomp	Ppm1d	Ppp3cb
Pomt1	Ppm1e	Ppp3cc
Pomt2	Ppm1f	Ppp3r1
Pon2	Ppm1g	Ppp4c
Pon3	Ppm1h	Ppp4r1
Pop1	Ppm1k	Ppp4r2
Pop4	Ppm1m	Ppp5c
Pop7	Ppme1	Ppp6c
Pot1a	Ppox	Ppp6r1
Pou2f1	Ppp1ca	Ppp6r2
Pou2f2	Ppp1cb	Ppp6r3
Pou6f1	Ppp1cc	Pppde1
Ppa1	Ppp1r10	Pppde2
Ppa2	Ppp1r11	Pprc1
Ppan	Ppp1r12a	Ppt1
Ppap2a	Ppp1r12b	Ppt2
Ppap2c	Ppp1r12c	Pptc7
Ppapdc1b	Ppp1r14a	Ppwd1
Ppapdc2	Ppp1r14b	Pqbp1
Ppard	Ppp1r15a	Pqlc1
Ppargc1b	Ppp1r15b	Pqlc2
Ppat	Ppp1r16a	Pqlc3
Ppcdc	Ppp1r16b	Praf2
Ppcs	Ppp1r2	Pramef8

Prc1	Prkra	Prune
Prcc	Prkrip1	Psap
Prcp	Prkrir	Psd3
Prdm10	Prkx	Psd4
Prdm11	Prmt1	Psen1
Prdm15	Prmt10	Psenen
Prdm2	Prmt2	Psip1
Prdm4	Prmt3	Pskh1
Prdm5	Prmt5	Psma1
Prdm9	Prmt6	Psma2
Prdx1	Prmt7	Psma3
Prdx2	Prnd	Psma4
Prdx3	Prnp	Psma5
Prdx4	Pros1	Psma7
Prdx5	Prosapip1	Psemb1
Prdx6	Prosc	Psemb10
Preb	Prpf18	Psemb2
Prelid1	Prpf19	Psemb4
Prelid2	Prpf3	Psemb5
Prep	Prpf31	Psemb6
Prepl	Prpf38a	Psemb7
Prex1	Prpf38b	Psemb8
Prickle1	Prpf39	Psemb9
Prickle3	Prpf4	Psmc1
Prim1	Prpf40a	Psmc2
Prim2	Prpf40b	Psmc3
Prkaa1	Prpf4b	Psmc3ip
Prkab1	Prpf6	Psmc4
Prkab2	Prpf8	Psmc5
Prkaca	Prps1	Psmc6
Prkacb	Prps2	Psmc6
Prkar1a	Prpsap2	Psmc6
Prkar2b	Prr11	Psmc6
Prkca	Prr12	Psmc6
Prkcb	Prr3	Psmc6
Prkcd	Prr7	Psmc6
Prkch	Prrc1	Psmc6
Prkci	Prrg1	Psmc6
Prkcq	Prrg2	Psmc6
Prkcsh	Prrg4	Psmc6
Prkd2	Prrt1	Psmc6
Prkd3	Prrt2	Psmc6
Prkdc	Prtg	Psmc6

Psmc9	Ptplb	Pxn
Psme1	Ptpmt1	Pycard
Psme2	Ptpn1	Pycr2
Psme3	Ptpn11	Pycl
Psme4	Ptpn12	Pygb
Psmf1	Ptpn18	Pygo2
Psmg1	Ptpn2	Pyhin1
Psmg2	Ptpn22	Pyroxd1
Psmg3	Ptpn23	Qars
Psmg4	Ptpn4	Qdpr
Pspc1	Ptpn6	Qk
Psph	Ptpn7	Qpct
Psrc1	Ptpn9	Qpctl
Pstk	Ptpn9	Qrich1
Pstpip1	Ptpn9	Qrs1
Ptbp1	Ptpn9	Qser1
Ptbp2	Ptpn9	Qsox1
Ptcd1	Ptpn9	Qsox2
Ptcd2	Ptpn9	Qtrt1
Ptcd3	Ptpn9	R3hcc1
Ptch1	Ptpn9	R3hdm1
Ptcra	Ptpn9	Rab1
Ptdss1	Ptpn9	Rab10
Ptdss2	Ptpn9	Rab11a
Pten	Ptpn9	Rab11b
Pter	Ptpn9	Rab11fip1
Ptger2	Ptpn9	Rab11fip2
Ptger4	Ptpn9	Rab11fip4
Ptges2	Ptpn9	Rab11fip5
Ptges3	Ptpn9	Rab12
Ptgr1	Ptpn9	Rab13
Ptgr2	Ptpn9	Rab14
Ptk2b	Ptpn9	Rab18
Ptk7	Ptpn9	Rab19
Ptma	Ptpn9	Rab1b
Ptms	Ptpn9	Rab21
Ptov1	Ptpn9	Rab22a
Ptp4a1	Ptpn9	Rab23
Ptp4a2	Ptpn9	Rab24
Ptp4a3	Ptpn9	Rab27a
Ptpdc1	Ptpn9	Rab28
Ptpla	Ptpn9	Rab2a
Ptplad1	Ptpn9	Rab2b

Rab32	Rad51	Rapgef1
Rab33a	Rad51ap1	Rapgef2
Rab33b	Rad51c	Rapgef3
Rab35	Rad51l1	Rapgef6
Rab3a	Rad51l3	Rapgef11
Rab3d	Rad52	Rara
Rab3gap1	Rad54b	Rars
Rab3gap2	Rad54l	Rars2
Rab3ip	Rad54l2	Rasa1
Rab40c	Rad9	Rasa2
Rab43	Rad9b	Rasa3
Rab4a	Rae1	Rasa4
Rab4b	Raf1	Rasal1
Rab5a	Rag1	Rasal3
Rab5b	Rag2	Rasgrp1
Rab5c	Rai1	Rasgrp2
Rab7	Rai12	Rasgrp4
Rab7l1	Rala	Rasl11b
Rab8a	Ralb	Rassf1
Rab8b	Ralbp1	Rassf2
Rab9	Ralgapa1	Rassf3
Rabac1	Ralgapa2	Rassf4
Rabep1	Ralgapb	Rassf7
Rabep2	Ralgds	Raver1
Rabepk	Ralgps1	Rb1
Rabgap1	Ralgps2	Rbak
Rabgap1l	Raly	Rbbp4
Rabgef1	Ramp1	Rbbp5
Rabggta	Ran	Rbbp7
Rabggtb	Ranbp1	Rbbp8
Rabif	Ranbp10	Rbbp9
Rabl2	Ranbp2	Rbck1
Rabl3	Ranbp3	Rbks
Rabl5	Ranbp6	Rbl1
Rac1	Ranbp9	Rbl2
Rac2	Rangap1	Rbm10
Rad1	Rangrf	Rbm12
Rad17	Rap1a	Rbm12b
Rad18	Rap1b	Rbm14
Rad21	Rap1gds1	Rbm15
Rad23a	Rap2a	Rbm15b
Rad23b	Rap2b	Rbm17
Rad50	Rap2c	Rbm18

Rbm19
Rbm22
Rbm26
Rbm27
Rbm28
Rbm3
Rbm34
Rbm38
Rbm39
Rbm4
Rbm41
Rbm42
Rbm43
Rbm44
Rbm45
Rbm4b
Rbm5
Rbm6
Rbm7
Rbm8a
RbmX
RbmX2
Rc3h1
Rc3h2
Rcan1
Rcan3
Rcbtb1
Rcc1
Rcc2
Rccd1
Rce1
Rchy1
Rcl1
Rcn1
Rcn2
Rcor1
Rcor2
Rcor3
Rcsd1
Rdbp
Rdh10
Rdh11
Rdh12

Rdh13
Rdh14
Rdh5
Rdm1
Rdx
Reck
Recql
Recql4
Recql5
Reep3
Reep4
Reep5
Rel
Rela
Relb
Rell1
Rell2
Relt
Repin1
Reps1
Rer1
Rere
Rest
Retsat
Rev1
Rev3l
Rexo1
Rexo2
Rexo4
Rfc1
Rfc2
Rfc3
Rfc4
Rfc5
Rfesd
Rffl
Rfk
Rfng
Rft1
Rftn1
Rfwd2
Rfwd3
Rfx1

Rfx2
Rfx3
Rfx5
Rfx7
Rfxank
Rfxap
Rg9mtd1
Rg9mtd2
Rg9mtd3
Rgl1
Rgl2
Rgp1
Rgs10
Rgs12
Rgs14
Rgs19
Rgs2
Rhbdd1
Rhbdd2
Rhbdd3
Rhddf2
Rheb
Rhebl1
Rhoa
Rhobtb2
Rhof
Rhog
Rhoh
Rhot1
Rhot2
Ribc1
Ric8
Ric8b
Rictor
Rif1
Rilp
Rilpl1
Rilpl2
Rimbp3
Rin3
Ring1
Rinl
Rint1

Riok1	Rnf151	Rogdi
Riok2	Rnf157	Rom1
Riok3	Rnf166	Romo1
Ripk1	Rnf167	Ropn1l
Ripk2	Rnf168	Rorc
Ripk3	Rnf170	Rp2h
Rit1	Rnf181	Rpa1
Rlf	Rnf185	Rpa2
Rlim	Rnf187	Rpa3
Rmi1	Rnf19a	Rpain
Rmnd1	Rnf19b	Rpap1
Rmnd5a	Rnf2	Rpap2
Rmnd5b	Rnf20	Rpap3
Rnase4	Rnf214	Rpe
Rnaseh1	Rnf215	Rpf1
Rnaseh2a	Rnf219	Rpf2
Rnaseh2b	Rnf24	Rpgr
Rnaseh2c	Rnf25	Rpgrip1l
Rnasek	Rnf26	Rpia
Rnasel	Rnf31	Rpl10
Rnaset2a	Rnf32	Rpl10a
Rnaset2b	Rnf34	Rpl11
Rnd2	Rnf40	Rpl12
Rnf10	Rnf41	Rpl13
Rnf103	Rnf44	Rpl13a
Rnf111	Rnf5	Rpl14
Rnf113a1	Rnf6	Rpl15
Rnf114	Rnf7	Rpl17
Rnf115	Rnf8	Rpl18
Rnf122	Rnft1	Rpl18a
Rnf126	Rnft2	Rpl19
Rnf13	Rngtt	Rpl21
Rnf130	Rnh1	Rpl22
Rnf135	Rnls	Rpl22l1
Rnf138	Rnmt	Rpl23
Rnf139	Rnmtl1	Rpl23a
Rnf14	Rnpc3	Rpl24
Rnf141	Rnpep	Rpl26
Rnf144a	Rnpepl1	Rpl27
Rnf144b	Rnps1	Rpl27a
Rnf145	Rock1	Rpl28
Rnf146	Rock2	Rpl3
Rnf149	Rod1	Rpl31

Rpl32	Rps2	Rrm1
Rpl34	Rps20	Rrm2
Rpl35	Rps21	Rrm2b
Rpl35a	Rps23	Rrn3
Rpl36	Rps24	Rrp1
Rpl36a	Rps25	Rrp12
Rpl36al	Rps26	Rrp15
Rpl37	Rps27a	Rrp1b
Rpl37a	Rps27l	Rrp36
Rpl38	Rps28	Rrp7a
Rpl39	Rps29	Rrp8
Rpl4	Rps3	Rrp9
Rpl5	Rps3a	Rrs1
Rpl6	Rps4x	Rsad1
Rpl7	Rps5	Rsb1
Rpl7a	Rps6	Rsb1l
Rpl7l1	Rps6ka1	Rsc1a1
Rpl8	Rps6ka2	Rsf1
Rpl9	Rps6ka4	Rsl1
Rplp0	Rps6ka5	Rsl1d1
Rplp1	Rps6kb1	Rsl24d1
Rplp2	Rps6kb2	Rsph3a
Rpn1	Rps6kc1	Rsph3b
Rpn2	Rps6kl1	Rsph9
Rpp14	Rps7	Rspry1
Rpp21	Rps8	Rsrc2
Rpp30	Rps9	Rsu1
Rpp38	Rpsa	Rtcd1
Rpp40	Rptor	Rtel1
Rprd1a	Rpusd1	Rtf1
Rprd1b	Rpusd2	Rtkn2
Rprd2	Rpusd3	Rtn3
Rps10	Rpusd4	Rtn4
Rps11	Rqcd1	Rtn4ip1
Rps12	Rrad	Rtp4
Rps14	Rraga	Rttn
Rps15	Rragb	Rufy1
Rps15a	Rragc	Rufy2
Rps16	Rragd	Rufy3
Rps17	Rras	Rundc1
Rps18	Rras2	Rundc3b
Rps19	Rrbp1	Runx1
Rps19bp1	Rreb1	Ruvbl1

Rwdd1	Sbno1	Sdr39u1
Rwdd2a	Sbno2	Sdr42e1
Rwdd2b	Sc4mol	Sec11a
Rwdd3	Sc5d	Sec11c
Rwdd4a	Scaf1	Sec13
Rxrb	Scai	Sec14l1
S100a1	Scamp2	Sec16a
S100a10	Scamp3	Sec22a
S100a11	Scamp4	Sec22b
S100a13	Scand1	Sec22c
S100pbp	Scap	Sec23a
S1pr2	Scarb1	Sec23b
S1pr4	Scarb2	Sec23ip
Saal1	Scarf1	Sec24a
Sac3d1	Scd2	Sec24b
Sacm1l	Scfd1	Sec24c
Sae1	Scfd2	Sec24d
Safb	Sclt1	Sec31a
Safb2	Scly	Sec61a1
Samd1	Scmh1	Sec61a2
Samd10	Scml4	Sec61b
Samd8	Scnm1	Sec61g
Samd9l	Sco1	Sec62
Samm50	Scpep1	Sec63
Sap130	Scrib	Secisbp2
Sap18	Scrn2	Secisbp2l
Sap30	Scrn3	Seh1l
Sap30bp	Scyl1	Sel1l
Sap30l	Scyl2	Sell
Sar1a	Scyl3	Selplg
Sar1b	Sdad1	Sema4d
Sars	Sdcbp	Sema7a
Sars2	Sdccag3	Senp1
Sart1	Sdccag8	Senp2
Sart3	Sdf2	Senp3
Sash3	Sdf2l1	Senp5
Sass6	Sdf4	Senp6
Sat1	Sdha	Senp7
Satb1	Sdhaf1	Senp8
Sav1	Sdhaf2	Sephs1
Sbds	Sdhb	Sepsecs
Sbf1	Sdhc	40421
Sbk1	Sdhd	40431

40422	Sf3b4	Shf
40426	Sf3b5	Shfm1
40427	Sfmbt1	Shisa5
40429	Sfpq	Shkbp1
Serac1	Sfrs18	Shmt1
Serbp1	Sft2d1	Shoc2
Serf1	Sft2d2	Shpk
Serf2	Sft2d3	Shprh
Sergef	Sfxn1	Shq1
Serhl	Sfxn2	Siae
Serinc1	Sfxn3	Siah1a
Serinc3	Sfxn4	Siah1b
Serinc4	Sgk3	Siah2
Serinc5	Sgol1	Sidt1
Serp1	Sgol2	Sidt2
Serpinb6b	Sgpl1	Sigirr
Serpinb9	Sgpp1	Sigmar1
Serpini1	Sgsh	Sik1
Sertad1	Sgsm2	Sik2
Sertad2	Sgsm3	Sik3
Sertad3	Sgta	Sike1
Sesn1	Sh2b1	Sil1
Sesn2	Sh2b3	Sin3b
Sesn3	Sh2d1a	Sip1
Setd1a	Sh2d2a	Sipa1
Setd2	Sh2d3c	Sipa111
Setd3	Sh2d5	Sirt1
Setd4	Sh3bgrl	Sirt2
Setd5	Sh3bgrl3	Sirt3
Setd6	Sh3bp1	Sirt4
Setd7	Sh3bp2	Sirt5
Setd8	Sh3bp5	Sirt6
Setdb1	Sh3bp5l	Sirt7
Setdb2	Sh3gl1	Sit1
Setmar	Sh3glb1	Siva1
Setx	Sh3glb2	Ska1
Sf1	Sh3kbp1	Skap1
Sf3a1	Sh3pxd2a	Ski
Sf3a2	Sh3rf1	Skil
Sf3a3	Sharpin	Skiv2l
Sf3b1	Shc1	Skiv2l2
Sf3b2	Shc4	Skp1a
Sf3b3	Shcbp1	Skp2

Sla	Slc25a24	Slc33a1
Sla2	Slc25a25	Slc35a1
Slain1	Slc25a26	Slc35a2
Slain2	Slc25a27	Slc35a3
Slamf1	Slc25a28	Slc35a4
Slamf6	Slc25a29	Slc35a5
Slbp	Slc25a3	Slc35b1
Slc10a3	Slc25a30	Slc35b2
Slc10a7	Slc25a32	Slc35b3
Slc12a4	Slc25a33	Slc35b4
Slc12a6	Slc25a35	Slc35c1
Slc12a9	Slc25a36	Slc35c2
Slc14a1	Slc25a37	Slc35d1
Slc16a1	Slc25a38	Slc35d2
Slc16a10	Slc25a39	Slc35e1
Slc16a13	Slc25a4	Slc35e2
Slc16a5	Slc25a40	Slc35e3
Slc16a6	Slc25a42	Slc35e4
Slc17a5	Slc25a43	Slc35f2
Slc18a1	Slc25a44	Slc35f5
Slc19a1	Slc25a45	Slc36a1
Slc19a2	Slc25a46	Slc36a4
Slc1a4	Slc25a5	Slc37a1
Slc1a5	Slc26a11	Slc37a2
Slc20a1	Slc26a2	Slc37a3
Slc20a2	Slc26a6	Slc37a4
Slc22a15	Slc27a1	Slc38a1
Slc22a5	Slc27a4	Slc38a10
Slc23a2	Slc27a6	Slc38a2
Slc24a6	Slc29a1	Slc38a6
Slc25a1	Slc29a2	Slc38a7
Slc25a10	Slc29a3	Slc38a9
Slc25a11	Slc2a1	Slc39a1
Slc25a12	Slc2a12	Slc39a10
Slc25a13	Slc2a3	Slc39a11
Slc25a14	Slc2a4	Slc39a13
Slc25a15	Slc30a1	Slc39a14
Slc25a16	Slc30a4	Slc39a3
Slc25a17	Slc30a5	Slc39a6
Slc25a19	Slc30a6	Slc39a7
Slc25a20	Slc30a7	Slc39a8
Slc25a22	Slc30a9	Slc39a9
Slc25a23	Slc31a1	Slc3a2

Slc41a1	Smad3	Smurf1
Slc41a3	Smad4	Smurf2
Slc43a1	Smad5	Smyd1
Slc43a2	Smap1	Smyd2
Slc43a3	Smap2	Smyd3
Slc44a1	Smarca2	Smyd4
Slc44a2	Smarca4	Smyd5
Slc45a4	Smarca5	Snai1
Slc46a1	Smarcad1	Snai3
Slc46a3	Smarcal1	Snap23
Slc48a1	Smarcb1	Snap29
Slc4a1ap	Smarcc1	Snap47
Slc4a2	Smarcc2	Snapc1
Slc4a7	Smarcd1	Snapc2
Slc5a3	Smarcd2	Snapc3
Slc5a6	Smarce1	Snapc4
Slc6a6	Smc1a	Snapc5
Slc7a1	Smc2	Snapin
Slc7a11	Smc3	Snd1
Slc7a5	Smc4	Snf8
Slc7a6	Smc5	Snip1
Slc7a6os	Smc6	Snn
Slc9a1	Smchd1	Snrk
Slc9a3r1	Smcr7	Snrnp200
Slc9a5	Smcr7l	Snrnp25
Slc9a6	Smcr8	Snrnp27
Slc9a7	Smek1	Snrnp35
Slc9a8	Smek2	Snrnp40
Slc9a9	Smg1	Snrnp48
Slco3a1	Smg5	Snrnp70
Slco4a1	Smg6	Snrpa
Slfn2	Smg7	Snrpa1
Slfn3	Smn1	Snrpb
Slfn5	Smndc1	Snrpb2
Slfn8	Smo	Snrpc
Slfn9	Smox	Snrpd1
Slk	Smpd1	Snrpd2
Simap	Smpd2	Snrpd3
Slmo2	Smpd4	Snrpf
Sltm	Smpdl3a	Snrpg
Slu7	Sms	Snupn
Smad1	Smtn	Snw1
Smad2	Smu1	Snx1

Snx10	Sp3	Spr
Snx11	Sp4	Spred1
Snx12	Spa17	Spred2
Snx14	Spaca1	Spry1
Snx15	Spag4	Spryd3
Snx16	Spag5	Spryd4
Snx17	Spag6	Spsb2
Snx18	Spag7	Spsb3
Snx19	Spag8	Sptlc1
Snx2	Spag9	Sptlc2
Snx20	Spast	Spty2d1
Snx21	Spata1	Sqle
Snx25	Spata2	Sqrdl
Snx27	Spata24	Sqstm1
Snx3	Spata5	Sra1
Snx30	Spata6	Srd5a1
Snx32	Spata7	Srd5a3
Snx33	Spats1	Srebf1
Snx4	Spats2	Srebf2
Snx5	Spc24	Srf
Snx6	Spc25	Srfbp1
Snx8	Spcs1	Srgap2
Snx9	Spcs2	Srgap3
Soat1	Spef1	Srl
Socs1	Spef2	Srm
Socs3	Spen	Srp14
Socs4	Spg11	Srp19
Socs5	Spg20	Srp54a
Socs7	Spg21	Srp68
Sod1	Spg7	Srp72
Sod2	Sphk2	Srp9
Solh	Spin1	Srpk1
Son	Spin2	Srpk2
Sorbs1	Spink10	Srpr
Sord	Spint2	Srprb
Sort1	Spn	Srr
Sos1	Spna2	Srrd
Sos2	Spns1	Srrm1
Sox4	Spns3	Srrm2
Sp1	Spo11	Srrt
Sp100	Spop	Srsf1
Sp110	Spopl	Srsf10
Sp140	Sppl3	Srsf11

Srsf12	Stambp1	Stradb
Srsf2	Stap1	Strap
Srsf3	Stard10	Strbp
Srsf4	Stard3	Strn
Srsf5	Stard3nl	Strn3
Srsf6	Stard4	Strn4
Srsf7	Stard5	Stt3a
Srsf9	Stard6	Stt3b
Ss18	Stard7	Stub1
Ss18l1	Stat1	Stx11
Ssb	Stat2	Stx12
Ssbp1	Stat3	Stx16
Ssbp2	Stat4	Stx17
Ssbp3	Stat5a	Stx18
Ssbp4	Stat5b	Stx2
Ssfa2	Stat6	Stx5a
Ssh2	Stau1	Stx6
Ssna1	Stil	Stx7
Ssr1	Stim1	Stx8
Ssr2	Stim2	Stxbp1
Ssr3	Stip1	Stxbp2
Ssr4	Stk10	Stxbp3a
Ssrp1	Stk11	Stxbp4
Sssca1	Stk11ip	Stxbp5
Ssu72	Stk16	Styx
Ssx2ip	Stk17b	Styx11
St13	Stk19	Sub1
St3gal1	Stk24	Sucla2
St3gal3	Stk25	Suclg1
St3gal4	Stk3	Suclg2
St3gal5	Stk30	Suds3
St6gal1	Stk35	Sufu
St6galnac3	Stk36	Sugp1
St6galnac4	Stk38	Sugp2
St7	Stk38l	Sugt1
St7l	Stk4	Sumf1
St8sia1	Stk40	Sumf2
St8sia4	Stmn1	Sumo1
Stag2	Stom	Sumo2
Stag3	Stoml1	Sumo3
Stam	Stoml2	Sun1
Stam2	Ston1	Sun2
Stambp	Stra13	Suox

Supt16h	Tab2	Tardbp
Supt3h	Tab3	Tars
Supt4h1	Tac4	Tars2
Supt5h	Tacc1	Tarsl2
Supt6h	Tacc3	Tas1r1
Supt7l	Taco1	Tasp1
Supv3l1	Tada1	Tatdn1
Surf1	Tada2a	Tatdn2
Surf2	Tada2b	Tatdn3
Surf4	Tada3	Tax1bp1
Surf6	Taf1	Tax1bp3
Susd1	Taf10	Taz
Susd3	Taf11	Tbc1d10a
Suv39h1	Taf12	Tbc1d10b
Suv39h2	Taf13	Tbc1d10c
Suv420h1	Taf15	Tbc1d13
Suv420h2	Taf1b	Tbc1d15
Suz12	Taf1c	Tbc1d17
Sv2a	Taf1d	Tbc1d19
Svil	Taf2	Tbc1d2
Swap70	Taf3	Tbc1d20
Syap1	Taf4a	Tbc1d22a
Syce2	Taf5	Tbc1d22b
Syde1	Taf5l	Tbc1d23
Syde2	Taf6	Tbc1d25
Syf2	Taf6l	Tbc1d2b
Sympk	Taf7	Tbc1d5
Syn3	Taf8	Tbc1d7
Syncrip	Taf9	Tbc1d8
Syngr1	Taf9b	Tbc1d8b
Syngr2	Tagap1	Tbc1d9b
Syngr4	Tagln2	Tbca
Synj1	Taldo1	Tbcb
Synj2	Tanc1	Tbcc
Synj2bp	Taok1	Tbccd1
Synrg	Taok2	Tbcd
Sypl	Taok3	Tbce
Syt11	Tap1	Tbck
Syt13	Tap2	Tbk1
Sytl1	Tapbp	Tbl1x
Syvn1	Tapbpl	Tbl1xr1
Szt2	Tapt1	Tbl2
Tab1	Tarbp2	Tbl3

Tbp	Terf1	Thap3
Tbpl1	Terf2	Thap4
Tbrg1	Terf2ip	Thap7
Tbrg4	Tert	Thbs3
Tbxa2r	Tes	Them4
Tcea1	Tesk1	Themis
Tcea2	Tesk2	Thg1l
Tceb1	Tet1	Thnsl1
Tceb2	Tex10	Thnsl2
Tceb3	Tex14	Thoc1
Tcerg1	Tex15	Thoc3
Tcf12	Tex2	Thoc5
Tcf19	Tex22	Thoc6
Tcf25	Tex261	Thoc7
Tcf3	Tex264	Thop1
Tcf4	Tex9	Thra
Tcf7	Tfam	Thrap3
Tcf7l2	Tfb1m	Thsd1
Tchp	Tfb2m	Thtpa
Tcirg1	Tfdp1	Thumpd1
Tcn2	Tfdp2	Thumpd2
Tcof1	Tfg	Thumpd3
Tcp1	Tfip11	Thy1
Tcp11	Tfpt	Thyn1
Tcp11l2	Tfrc	Tia1
Tcta	Tgds	Tial1
Tctex1d1	Tgfb1	Ticam1
Tctex1d2	Tgfb3	Ticam2
Tctn1	Tgfbr1	Tifab
Tctn3	Tgfbr2	Tigd2
Tdg	Tgfbr3	Tigd3
Tdp1	Tgfbrap1	Tigd4
Tdp2	Tgif1	Timeless
Tdrd3	Tgif2	Timm10
Tdrd5	Tgoln1	Timm13
Tdrkh	Tgoln2	Timm17a
Tec	Tgs1	Timm17b
Tecpr1	Th1l	Timm22
Tecpr2	Tha1	Timm23
Tecr	Thada	Timm44
Telo2	Thap1	Timm50
Tenc1	Thap11	Timm8a1
Tep1	Thap2	Timm8b

Timm9	Tmco7	Tmem160
Timp2	Tmed1	Tmem161a
Tinf2	Tmed10	Tmem161b
Tiparp	Tmed2	Tmem164
Tipin	Tmed3	Tmem165
Tiprl	Tmed4	Tmem167
Tirap	Tmed5	Tmem167b
Tjap1	Tmed7	Tmem168
Tjp3	Tmed8	Tmem17
Tk1	Tmed9	Tmem170
Tk2	Tmem101	Tmem175
Tkt	Tmem104	Tmem176a
Tlcd1	Tmem106a	Tmem176b
Tlcd2	Tmem106b	Tmem177
Tle1	Tmem106c	Tmem179b
Tle2	Tmem107	Tmem18
Tle3	Tmem109	Tmem180
Tle4	Tmem11	Tmem183a
Tle6	Tmem110	Tmem184b
Tlk1	Tmem111	Tmem184c
Tlk2	Tmem115	Tmem185b
Tln1	Tmem116	Tmem186
Tlr12	Tmem120a	Tmem188
Tlr2	Tmem121	Tmem189
Tlr6	Tmem123	Tmem19
Tm2d1	Tmem126a	Tmem191c
Tm2d2	Tmem126b	Tmem192
Tm2d3	Tmem127	Tmem194
Tm6sf1	Tmem128	Tmem194b
Tm7sf2	Tmem129	Tmem199
Tm7sf3	Tmem131	Tmem20
Tm9sf1	Tmem134	Tmem201
Tm9sf2	Tmem138	Tmem203
Tm9sf3	Tmem139	Tmem205
Tm9sf4	Tmem140	Tmem206
Tmbim6	Tmem143	Tmem208
Tmc6	Tmem144	Tmem209
Tmc8	Tmem147	Tmem214
Tmcc1	Tmem149	Tmem216
Tmco1	Tmem14a	Tmem218
Tmco3	Tmem14c	Tmem220
Tmco4	Tmem151b	Tmem221
Tmco6	Tmem154	Tmem222

Tmem223	Tmem9	Tnk2
Tmem229b	Tmem93	Tnks
Tmem231	Tmem97	Tnks1bp1
Tmem29	Tmem9b	Tnks2
Tmem30a	Tmf1	Tnnc1
Tmem33	Tmod3	Tnni3
Tmem35	Tmpo	Tnp2
Tmem38a	Tmsb10	Tnpo1
Tmem38b	Tmsb15b1	Tnpo2
Tmem39a	Tmsb4x	Tnpo3
Tmem39b	Tmtc2	Tnrc6a
Tmem41a	Tmtc3	Tnrc6b
Tmem41b	Tmtc4	Tnrc6c
Tmem42	Tmub1	Tns3
Tmem43	Tmub2	Tob1
Tmem48	Tmx1	Tob2
Tmem5	Tmx2	Toe1
Tmem50a	Tmx3	Tom112
Tmem50b	Tmx4	Tomm20
Tmem55a	Tnf	Tomm22
Tmem55b	Tnfaip1	Tomm34
Tmem57	Tnfaip3	Tomm40
Tmem59	Tnfaip8	Tomm40l
Tmem60	Tnfaip8l1	Tomm5
Tmem62	Tnfaip8l2	Tomm6
Tmem63a	Tnfrsf10b	Tomm7
Tmem63b	Tnfrsf14	Tomm70a
Tmem64	Tnfrsf18	Tomt
Tmem65	Tnfrsf19	Top1
Tmem66	Tnfrsf1a	Top1mt
Tmem67	Tnfrsf1b	Top2a
Tmem68	Tnfrsf21	Top2b
Tmem69	Tnfrsf22	Top3a
Tmem70	Tnfrsf23	Top3b
Tmem71	Tnfrsf26	Topbp1
Tmem79	Tnfrsf8	Topors
Tmem80	Tnfrsf9	Tor1a
Tmem85	Tnfsf10	Tor1aip1
Tmem86a	Tnfsf11	Tor1aip2
Tmem87a	Tnfsf14	Tor1b
Tmem87b	Tnfsf9	Tor2a
Tmem88	Tnik	Tor3a
Tmem8b	Tnip2	Tox

Tox4	Trappc4	Trip12
Tpcn1	Trappc5	Trip13
Tpcn2	Trappc6a	Trip4
Tpd52	Trappc6b	Trit1
Tpd52l2	Trappc9	Trmt1
Tpi1	Trat1	Trmt11
Tpk1	Trdmt1	Trmt112
Tpm4	Trem12	Trmt12
Tpmt	Trerf1	Trmt2a
Tpp1	Trex1	Trmt2b
Tpp2	Triap1	Trmt5
Tpr	Trib1	Trmt6
Tpra1	Trib2	Trmt61a
Tprgl	Trib3	Trmu
Tprkb	Trim11	Trnau1ap
Tprn	Trim13	Trnt1
Tpst2	Trim14	Troap
Tpt1	Trim16	Trove2
Tpx2	Trim17	Trp53
Tra2a	Trim21	Trp53bp1
Tra2b	Trim23	Trp53bp2
Tradd	Trim24	Trp53i11
Traf1	Trim25	Trp53i13
Traf2	Trim26	Trp53inp1
Traf3	Trim27	Trp53inp2
Traf3ip1	Trim28	Trp53rk
Traf3ip2	Trim32	Trpc2
Traf3ip3	Trim33	Trpc4ap
Traf4	Trim35	Trpm7
Traf5	Trim37	Trps1
Traf6	Trim39	Trpt1
Traf7	Trim41	Trpv2
Trafd1	Trim45	Trrap
Trak1	Trim46	Trub1
Trak2	Trim56	Trub2
Tram1	Trim59	Tsc1
Tram2	Trim6	Tsc2
Trap1	Trim62	Tsc22d1
Trappc1	Trim65	Tsc22d2
Trappc10	Trim68	Tsc22d4
Trappc2	Trim8	Tsen15
Trappc2l	Trip10	Tsen2
Trappc3	Trip11	Tsen34

Tsen54	Ttc23	Tubgcp3
Tsfm	Ttc25	Tubgcp4
Tsg101	Ttc26	Tubgcp5
Tsga10	Ttc27	Tubgcp6
Tsga14	Ttc3	Tufm
Tshz1	Ttc30a1	Tuft1
Tslp	Ttc30b	Tulp2
Tsn	Ttc32	Tulp3
Tsnax	Ttc33	Tulp4
Tsnaxip1	Ttc35	Tusc1
Tspan13	Ttc37	Tusc2
Tspan14	Ttc38	Tusc3
Tspan2	Ttc39d	Tut1
Tspan3	Ttc4	Twf1
Tspan31	Ttc5	Twf2
Tspan32	Ttc7	Twistnb
Tspan5	Ttc7b	Twsg1
Tspan6	Ttc9c	Txk
Tspo	Ttf1	Txlna
Tspyl1	Ttf2	Txlnb
Tspyl2	Tti1	Txlng
Tspyl3	Ttk	Txn1
Tspyl4	Ttl	Txn2
Tsr1	Ttl1	Txndc11
Tsr2	Ttl12	Txndc12
Tssc1	Ttl13	Txndc15
Tssc4	Ttl4	Txndc16
Tssk1	Ttl5	Txndc17
Tssk6	Ttpal	Txndc5
Tst	Ttyh3	Txndc9
Tsta3	Tuba1a	Txnip
Tstd2	Tuba1b	Txnl1
Ttbk2	Tuba1c	Txnl4a
Ttc1	Tuba4a	Txnl4b
Ttc12	Tuba8	Txnrd2
Ttc13	Tubb2a	Tyk2
Ttc14	Tubb2b	Tymp
Ttc15	Tubb5	Tyms
Ttc16	Tubd1	Tysnd1
Ttc17	Tube1	Tyw1
Ttc19	Tubg1	Tyw3
Ttc21a	Tubg2	U2af1
Ttc21b	Tubgcp2	U2af1l4

U2af2	Ube2t	Uck2
Uaca	Ube2v1	Uckl1
Uap1	Ube2v2	Ucp2
Uap1l1	Ube2w	Uevld
Uba1	Ube2z	Ufc1
Uba2	Ube3a	Ufd1l
Uba3	Ube3b	Ufm1
Uba5	Ube3c	Ufsp2
Uba52	Ube4a	Ugcg
Uba6	Ube4b	Ugdh
Uba7	Ubfd1	Uggt1
Ubac1	Ubiad1	Ugp2
Ubac2	Ubl3	Uhmk1
Ubap1	Ubl4	Uhrf1
Ubap2	Ubl5	Uhrf1bp1l
Ubap2l	Ubl7	Uhrf2
Ubash3a	Ublcp1	Uimc1
Ubb	Ubn1	Ulk1
Ubc	Ubn2	Ulk2
Ube2a	Ubox5	Ulk3
Ube2b	Ubp1	Ulk4
Ube2c	Ubqln1	Umps
Ube2cbp	Ubqln2	Unc119
Ube2d1	Ubqln4	Unc119b
Ube2d3	Ubr1	Unc13d
Ube2e1	Ubr2	Unc45a
Ube2e2	Ubr3	Unc45b
Ube2e3	Ubr4	Unc50
Ube2g1	Ubr7	Unc93b1
Ube2g2	Ubsd1	Ung
Ube2h	Ubsd2	Unk
Ube2i	Ubtf	Unkl
Ube2j1	Ubxn1	Upf1
Ube2j2	Ubxn11	Upf2
Ube2k	Ubxn2a	Upf3a
Ube2l3	Ubxn2b	Upf3b
Ube2l6	Ubxn4	Uprt
Ube2m	Ubxn6	Uqcc
Ube2o	Ubxn7	Uqcr10
Ube2q1	Ubxn8	Uqcr11
Ube2q2	Uchl3	Uqcrb
Ube2r2	Uchl5	Uqcrc1
Ube2s	Uck1	Uqcrc2

Uqcrfs1	Usp47	Vdac1
Uqcrh	Usp48	Vdac2
Uqcrq	Usp49	Vdac3
Urb1	Usp5	Vegfa
Urb2	Usp53	Vegfb
Urgcp	Usp6nl	VeZF1
Urm1	Usp8	VeZt
Urod	Usp9x	Vhl
Uros	Usp11	Vim
Use1	Utp11l	Vipar
Usf1	Utp14a	Vipr2
Ushbp1	Utp14b	Vkorc1
Usmg5	Utp15	Vkorc11l
Uso1	Utp18	Vmac
Usp1	Utp20	Vopp1
Usp10	Utp23	Vprbp
Usp11	Utp3	Vpreb1
Usp12	Utp6	Vps11
Usp15	Uvrag	Vps13a
Usp16	Uxs1	Vps13c
Usp18	Uxt	Vps13d
Usp19	Vac14	Vps16
Usp2	Vamp1	Vps18
Usp20	Vamp2	Vps26a
Usp21	Vamp3	Vps26b
Usp22	Vamp4	Vps28
Usp24	Vamp5	Vps29
Usp25	Vamp8	Vps33a
Usp27x	Vangl2	Vps33b
Usp28	Vapa	Vps35
Usp3	Vapb	Vps36
Usp30	Vars	Vps37a
Usp32	Vars2	Vps37b
Usp33	Vash1	Vps37c
Usp34	Vasp	Vps39
Usp36	Vat1	Vps41
Usp38	Vav1	Vps45
Usp39	Vav2	Vps4a
Usp4	Vav3	Vps4b
Usp40	Vbp1	Vps52
Usp42	Vcl	Vps53
Usp44	Vcp	Vps54
Usp46	Vcpip1	Vps72

Vps8	Wdr37	Whsc1
Vrk1	Wdr4	Whsc111
Vrk2	Wdr41	Whsc2
Vrk3	Wdr43	Wibg
Vta1	Wdr44	Wipf2
Vti1a	Wdr45	Wipi1
Vti1b	Wdr45l	Wipi2
Vwa5a	Wdr46	Wiz
Vwce	Wdr47	Wls
Wac	Wdr48	Wnk1
Wapal	Wdr5	Wnt5b
Wars	Wdr53	Wrap53
Wars2	Wdr55	Wrb
Was	Wdr59	Wrn
Wasf2	Wdr5b	Wrnip1
Wasl	Wdr6	Wsb1
Wbp1	Wdr60	Wsb2
Wbp11	Wdr61	Wtap
Wbp2	Wdr62	Wwox
Wbp4	Wdr67	Wwp1
Wbp5	Wdr7	Wwp2
Wbp7	Wdr70	Xab2
Wbscr16	Wdr73	Xaf1
Wbscr22	Wdr74	Xbp1
Wbscr27	Wdr75	Xk
Wdfy1	Wdr76	Xkr5
Wdfy2	Wdr77	Xkr8
Wdhd1	Wdr78	Xkrx
Wdr1	Wdr81	Xlr4a
Wdr11	Wdr82	Xlr4b
Wdr12	Wdr83	Xlr4c
Wdr13	Wdr85	Xpa
Wdr18	Wdr89	Xpc
Wdr19	Wdr90	Xpnpep1
Wdr20a	Wdr91	Xpnpep3
Wdr24	Wdr93	Xpo1
Wdr26	Wdsub1	Xpo4
Wdr27	Wdyhv1	Xpo5
Wdr3	Wee1	Xpo6
Wdr31	Wfikkn1	Xpo7
Wdr33	Wfs1	Xpot
Wdr34	Whamm	Xpr1
Wdr35	Whrn	Xrcc1

Xrcc2	Ywhah	Zc3h15
Xrcc3	Ywhaq	Zc3h18
Xrcc4	Ywhaz	Zc3h3
Xrcc5	Yy1	Zc3h4
Xrcc6	Yy2	Zc3h6
Xrcc6bp1	Zadh2	Zc3h7a
Xrn1	Zap70	Zc3h7b
Xrn2	Zbed3	Zc3h8
Xrra1	Zbed4	Zc3hav1
Xylb	Zbp1	Zc3hav1l
Xylt1	Zbtb1	Zc3hc1
Xylt2	Zbtb12	Zc4h2
Yaf2	Zbtb17	Zcchc10
Yars	Zbtb2	Zcchc11
Yars2	Zbtb20	Zcchc17
Ybx1	Zbtb22	Zcchc18
Ybx2	Zbtb24	Zcchc2
Ydjc	Zbtb25	Zcchc6
Yeats2	Zbtb26	Zcchc7
Yeats4	Zbtb3	Zcchc8
Yif1a	Zbtb33	Zcchc9
Yif1b	Zbtb34	Zcrb1
Yipf1	Zbtb37	Zcwpw1
Yipf2	Zbtb39	Zdhhc12
Yipf3	Zbtb4	Zdhhc13
Yipf4	Zbtb40	Zdhhc14
Yipf5	Zbtb41	Zdhhc15
Yipf6	Zbtb43	Zdhhc16
Ykt6	Zbtb44	Zdhhc17
Yme1l1	Zbtb45	Zdhhc20
Yod1	Zbtb48	Zdhhc21
Ypel1	Zbtb49	Zdhhc23
Ypel2	Zbtb5	Zdhhc24
Ypel3	Zbtb6	Zdhhc3
Ypel5	Zbtb8os	Zdhhc4
Yrdc	Zbtb9	Zdhhc5
Ythdc1	Zc3h10	Zdhhc6
Ythdf1	Zc3h11a	Zdhhc7
Ythdf2	Zc3h12a	Zdhhc8
Ythdf3	Zc3h12b	Zdhhc9
Ywhab	Zc3h12d	Zeb1
Ywhae	Zc3h13	Zer1
Ywhag	Zc3h14	Zfand1

Zfand2a	Zfp207	Zfp358
Zfand2b	Zfp212	Zfp36
Zfand3	Zfp213	Zfp362
Zfand5	Zfp219	Zfp365
Zfand6	Zfp229	Zfp367
Zfat	Zfp235	Zfp369
Zfc3h1	Zfp238	Zfp3611
Zfhx2	Zfp239	Zfp3612
Zfml	Zfp248	Zfp382
Zfp1	Zfp251	Zfp384
Zfp101	Zfp259	Zfp385a
Zfp106	Zfp26	Zfp386
Zfp108	Zfp260	Zfp39
Zfp109	Zfp263	Zfp397
Zfp11	Zfp27	Zfp398
Zfp110	Zfp273	Zfp40
Zfp113	Zfp275	Zfp407
Zfp114	Zfp276	Zfp408
Zfp12	Zfp28	Zfp41
Zfp120	Zfp280b	Zfp410
Zfp128	Zfp280c	Zfp414
Zfp13	Zfp280d	Zfp418
Zfp14	Zfp281	Zfp420
Zfp142	Zfp282	Zfp422
Zfp143	Zfp286	Zfp426
Zfp146	Zfp287	Zfp429
Zfp148	Zfp292	Zfp438
Zfp157	Zfp295	Zfp444
Zfp160	Zfp3	Zfp445
Zfp161	Zfp30	Zfp446
Zfp167	Zfp300	Zfp449
Zfp169	Zfp317	Zfp451
Zfp174	Zfp319	Zfp455
Zfp180	Zfp322a	Zfp456
Zfp182	Zfp324	Zfp457
Zfp184	Zfp326	Zfp458
Zfp185	Zfp329	Zfp46
Zfp187	Zfp330	Zfp472
Zfp189	Zfp335	Zfp473
Zfp191	Zfp341	Zfp498
Zfp192	Zfp346	Zfp507
Zfp2	Zfp35	Zfp51
Zfp202	Zfp354c	Zfp512

Zfp513	Zfp653	Zfp787
Zfp52	Zfp655	Zfp788
Zfp523	Zfp658	Zfp790
Zfp524	Zfp661	Zfp800
Zfp526	Zfp664	Zfp809
Zfp53	Zfp667	Zfp81
Zfp54	Zfp668	Zfp810
Zfp551	Zfp672	Zfp82
Zfp553	Zfp677	Zfp820
Zfp560	Zfp68	Zfp825
Zfp563	Zfp687	Zfp828
Zfp566	Zfp689	Zfp830
Zfp568	Zfp69	Zfp84
Zfp574	Zfp691	Zfp846
Zfp579	Zfp7	Zfp85-rs1
Zfp58	Zfp704	Zfp866
Zfp583	Zfp706	Zfp867
Zfp592	Zfp707	Zfp868
Zfp593	Zfp71-rs1	Zfp869
Zfp595	Zfp710	Zfp87
Zfp597	Zfp715	Zfp871
Zfp598	Zfp719	Zfp90
Zfp599	Zfp738	Zfp91
Zfp60	Zfp74	Zfp93
Zfp605	Zfp740	Zfp94
Zfp606	Zfp746	Zfp1
Zfp607	Zfp747	Zfpm1
Zfp609	Zfp748	Zfr
Zfp61	Zfp758	Zfr2
Zfp617	Zfp759	Zfx
Zfp619	Zfp760	Zfyve1
Zfp62	Zfp763	Zfyve16
Zfp622	Zfp764	Zfyve19
Zfp623	Zfp768	Zfyve20
Zfp628	Zfp770	Zfyve21
Zfp629	Zfp771	Zfyve26
Zfp637	Zfp772	Zfyve27
Zfp639	Zfp773	Zglp1
Zfp64	Zfp777	Zgpat
Zfp644	Zfp78	Zhx1
Zfp646	Zfp780b	Zhx2
Zfp647	Zfp784	Zhx3
Zfp652	Zfp786	Zik1

Zkscan1	Zswim1
Zkscan14	Zswim3
Zkscan3	Zswim4
Zkscan5	Zswim7
Zkscan6	Zufsp
Zmat2	Zw10
Zmat3	Zwilch
Zmat5	Zwint
Zmiz1	Zxdc
Zmiz2	Zyg11b
Zmpste24	Zyx
Zmym1	Zzef1
Zmym2	Zzz3
Zmym3	
Zmym4	
Zmym5	
Zmym6	
Zmynd11	
Zmynd19	
Znf512b	
Znfx1	
Znhit1	
Znhit3	
Znhit6	
Znrd1	
Znrd1as	
Znrf1	
Znrf2	
Znrf3	
Zpbp	
Zpbp2	
Zranb1	
Zranb2	
Zranb3	
Zrsr1	
Zrsr2	
Zscan10	
Zscan12	
Zscan2	
Zscan20	
Zscan21	
Zscan22	
Zscan29	

H3K4me3^{lo}
H3K27me3^{hi}

0610040J01Rik
1300002K09Rik
1700001C19Rik
1700011F03Rik
1700106J16Rik
1810019J16Rik
1810041L15Rik
2010001M09Rik
2410004A20Rik
2610034B18Rik
2900026A02Rik
5330417C22Rik
6030429G01Rik
6330403A02Rik
6330403K07Rik
9030418K01Rik
9030425E11Rik
9930013L23Rik
A430110N23Rik
A730011L01Rik
Abcc3
Abcg4
Ablim1
Acaa1b
Accn2
Accn4
Ache
Acox1
Acsl6
Acta1
Actl7b
Acvrl1
Acyp1
Adam11
Adam19
Adam22
Adamts8
Adamtsl4
Adcy1
Adcy5

Adra1d
Adra2a
Aebp1
Afap1l2
Ahr
Al464131
Al646023
Al661453
Aif1l
Aifm2
Ak5
Aldh1l2
Alk
Alox12
Alox15
Alox5
Alox8
Alpl
Amh
Amn
Amotl1
Amph
Ankrd53
Apln
Aqp3
Arfip1
Arhgap29
Arhgap6
Arhgdig
Arhgef7
Arid3c
Arntl2
Arx
Asb8
Asphd1
Asphd2
Atp1a3
Atp2c1
Atp2c2
Atp6v0a1
Atp8b1
Atp8b3
AU021092

AU023871
B230312A22Rik
B3gat2
B4galnt2
B4galnt4
B4galt2
Bace2
Baiap2l1
Barhl1
BC005764
BC030476
BC055111
BC061194
Bcam
Bcl3
Bcl6b
Best2
Bhlha9
Bin1
Bmp6
Bmp8b
Bok
Brsk1
C1qa
C1qc
C1ql1
C1qtnf4
C530008M17Rik
Cacna1e
Cacna2d2
Cacna2d4
Cacnb4
Calcb
Caly
Camk2b
Car15
Casz1
Ccdc106
Ccdc13
Ccdc37
Ccdc64b
Ccdc65
Ccdc85a

Ccnd1	Col12a1	Ddit4l
Ccr10	Col14a1	Ddn
Ccrl2	Col15a1	Ddr1
Cd164l2	Col18a1	Des
Cd248	Col1a1	Dgkz
Cd300a	Col2a1	Dhh
Cd302	Col7a1	Diras2
Cd40	Col8a2	Disc1
Cd63	Comp	Dkk1
Cd83	Coro6	Dlg3
Cdc42bpb	Cpeb1	Dlgap2
Cdh11	Cplx2	Dlgap3
Cdh20	Cpne5	Dlk1
Cdh3	Cpne9	Dll3
Cdhr1	Cpxm1	Dll4
Cdkn1a	Crabp1	Dmc1
Cdkn1c	Crabp2	Dmd
Cdo1	Crb2	Dmpk
Celf3	Creb3l1	Dmrta2
Celf4	Crispld2	Dnahc11
Celf5	Crlf1	Dnajb8
Cerkl	Crmp1	Doc2a
Cgnl1	Cryaa	Doc2b
Cgref1	Csf1r	Dock1
Chad	Cspg4	Dpcr1
Chd5	Ctnnd1	Dpf1
Chga	Ctnnd2	Dsg2
Chmp4c	Ctsh	Duox1
Chrm3	Cxcl12	Duox2
Chrn2	Cxcl16	Dusp3
Chst9	Cyp17a1	Dusp9
Cideb	Cyp26a1	Duxbl
Cilp2	Cyp26b1	Dysf
Ciz1	Cyp27a1	Dzip1l
Cldn3	Cyp27b1	E130203B14Rik
Clec2l	Cys1	Ebf1
Clmn	D16H22S680E	Echdc2
Cmklr1	Daam2	Efcab4a
Cnih2	Dagla	Efnb3
Cnn1	Dbn1	Egf
Cntn2	Dbn2	Egfl6
Coch	Dbx2	Elfn1
Col11a2	Dcxr	Elfn2

Eml2	Fibcd1	Gpr153
Emp2	Fkbp9	Gpr3
Epha10	Flt1	Gpr4
Ephx2	Fn1	Gpr64
Epor	Fndc5	Gpr68
Erb2	Fosl1	Gpr75
Esam	Foxf1a	Gpr83
Esrp1	Foxp2	Gpx7
Esyt3	Frmd4a	Gramd1b
Eya2	Frmd4b	Grb10
F2rl1	Fsd1	Greb1
Fabp3	Fstl1	Grhl2
Fam101a	Fstl3	Grhl3
Fam101b	Fut1	Grik5
Fam123a	Fxyd6	Grin1
Fam163a	Fxyd7	Grin2c
Fam164c	Gabbr2	Grin3b
Fam187b	Gabrb3	Grip2
Fam18a	Gabrd	Grrp1
Fam20a	Galnt1	Gsdma
Fam59b	Galr2	Gsg1l
Fam70a	Gas6	Gspt2
Fam83f	Gatm	Gstm5
Fam83h	Gbx1	H2-Q10
Fam84a	Gcgr	H2-Q6
Fam89a	Gda	H2-Q7
Fbln2	Gdf7	H2-Q8
Fbln5	Gfi1b	H2afy2
Fbn2	Ggn	H60b
Fbxo39	Ggt1	Has3
Fcna	Ghsr	Hck
Fermt2	Gipc3	Hctr1
Fes	Gipr	Hic1
Fgd5	Glac	Hlf
Fgf17	Gli1	Hoxb1
Fgf21	Glis1	Hoxb3
Fgf3	Glp1r	Hpca
Fgf8	Glit28d2	Hpse2
Fgf9	Gnal	Hrasls5
Fgfr1	Gnas	Hsd17b1
Fgl2	Gnl2	Hspa12a
Fhdc1	Gpc3	Hspb1
Fhod3	Gpm6b	Hspg2

Htra3
Htra4
Ica1
Igdcc4
Igf1
Igf2
Igfbp4
Igfbp1
Ihh
Il11ra1
Il28ra
Il31ra
Il6ra
Insl3
Insm2
Insrr
Intu
Irs3
Isl2
Itga11
Jam2
Jam3
Jph3
Jph4
Jsrp1
Kank3
Kank4
Kcna6
Kcnb1
Kcnd3
Kcnh1
Kcnh4
Kcnh6
Kcnj10
Kcnj8
Kcnj9
Kcnk13
Kcnk4
Kcns1
Kcnt1
Kcp
Kdelr3
Kif27

Kirrel
Kirrel3
Kitl
Klhl29
Kremen2
Krt18
Krt8
Krt83
Lama5
Lamb1
Lamc2
Lamc3
Lbx2
Lfng
Lhb
Lhx2
Lhx3
Lhx9
Lin52
Lingo3
Lmf1
Loxl2
Loxl4
Lpcat2
Lphn3
Lpl
Lrig3
Lrp4
Lrrc34
Lrrc4b
Lrrk1
Lrrn2
Lrrtm1
Ltbp2
Ltbp3
Ltbp4
Ltbr
Ly6g6c
Lypd6b
Magi2
Mamld1
Maneal
Mapk12

Mapk15
Mapk8ip1
Mapt
Mast1
Matk
Mcc
Mctp1
Mdk
Me1
Megf11
Mertk
Mfap2
Mfsd7a
Mlf1
Mlxipl
Mmp11
Mmp15
Mmp23
Mmp24
Mmp25
Mmp9
Mobp
Mogat1
Morc4
Morn4
Mospd4
Mrap2
Mrc2
Msi1
Msr3
Mt1
Mt2
Mtmr11
Mtus2
Muc1
Mybpc2
Myh11
Mylk
Myo5c
Mypop
Myrip
Nacad
Nags

Nanos2	Oprd1	Pkia
Naprt1	Osbp16	Pkib
Nat14	Ostm1	Plbd1
Nav1	Otop1	Plch2
Nav2	Otop3	Pld1
Nbl1	Ovol1	Plek2
Nccrp1	Oxct2a	Plekhg5
Ndufa4l2	Oxtr	Plekhg6
Nbl	P2rx2	Plin5
Nefl	P2rx5	Plip
Nefm	P4ha2	Pltp
Nes	P4ha3	Plvap
Neurog2	Panx2	Plxna2
Neurog3	Papln	Plxna4
Nexn	Papolb	Plxnb2
Nfatc2	Parm1	Pmp22
Ngb	Parvb	Pnoc
Ngfr	Pax5	Pnpla8
Nhlh1	Pax7	Ppl
Nhlrc4	Pax8	Ppm1j
Nhsl2	Pcdh10	Ppm1n
Nid2	Pcdh17	Ppp1r1a
Nkain1	Pcxl2	Prdm8
Nkpd1	Pcsk4	Prex2
Nkx6-2	Pcsk6	Prlr
Nlrp6	Pcsk9	Prmt8
Nnat	Pde10a	Procr
Nodal	Pde11a	Prokr2
Nol3	Pde4b	Prox1
Nos2	Pde4dip	Prph
Nova2	Pde8b	Prr18
Npas1	Pdia2	Prrt4
Nppc	Pdlim4	Prss23
Nrbp2	Pdzd2	Prss50
Nrp2	Penk	Psd2
Nrxn2	Pfdn4	Ptch2
Nt5e	Phf21a	Ptgs1
Ntf5	Phldb1	Pth1r
Ntn3	Phyhip	Ptpn5
Nxph4	Pitpnm3	Ptpre
Odz1	Pitx2	Ptpn
Olfm2	Pitx3	Ptpn2
Onecut3	Pkdrej	Ptpro

Ptrf	Rtn4rl2	Slc26a10
Rab31	Rundc3a	Slc27a3
Rab37	Ryr3	Slc29a4
Rab39b	S1pr1	Slc38a8
Ramp2	S1pr5	Slc40a1
Rap1gap	Sacs	Slc45a1
Rap1gap2	Sall2	Slc47a2
Rapgef4	Samd14	Slc4a10
Rarg	Samhd1	Slc5a5
Rasgef1a	Scamp5	Slc6a13
Rasgrf2	Scd1	Slc6a3
Rasl10a	Scml2	Slc6a7
Rasl11a	Scn1b	Slc7a2
Rbms3	Scn3b	Slc7a8
Rbp1	Scnn1a	Slit1
Rbpjl	Scube1	Slit2
Rcn3	Sdk2	Slitrk5
Rd3	Sec14l2	Smagp
Reep6	Sec31b	Smarcd3
Rem1	Sema4f	Smug1
Rftn2	Serpib6a	Sned1
Rfx4	Sfn	Snx22
Rgl3	Sfrp5	Sorbs3
Rgma	Sgk1	Sox8
Rgnef	Sgpp2	Sp6
Rgs11	Sh3rf3	Sphk1
Rgs16	Shank1	Spnb3
Rhbdf1	Shd	Spock2
Rhoc	She	Spon1
Rhod	Shisa2	Spred3
Rhoj	Shisa3	Sprn
Rin1	Shisa4	Srms
Ripk4	Shisa7	St14
Rnd1	Sim2	St6galnac2
Rnf207	Sirpa	St6galnac5
Rnf208	Skor1	Stab1
Rora	Slc12a5	Stac2
Rpp25	Slc15a1	Stard13
Rps27	Slc15a4	Stc2
Rspo1	Slc16a11	Stmn3
Rspo4	Slc16a8	Stmn4
Rtbdn	Slc1a2	Stra6
Rtn2	Slc24a1	Stx3

Stxbp5l
Sulf2
Sv2c
Syn1
Sync
Syp
Sypl2
Sys1
Syt15
Syt2
Syt6
Sytl4
Tbc1d9
Tbr1
Tbx2
Tbx3
Tcf15
Tchh
Tdrd6
Tead2
Tgfb2
Tgfbi
Tgm2
Thbd
Thbs1
Timp3
Tmc5
Tmc7
Tmcc3
Tmem130
Tmem136
Tmem146
Tmem200b
Tmem45b
Tmem59l
Tmem91
Tmod1
Tmtc1
Tnfaip2
Tnfrsf25
Tnfsf12
Tnfsf13b
Tnrc18

Tom11l
Tpm1
Tpm2
Tppp3
Trim15
Trim2
Trim29
Trim36
Triobp
Trpc5
Trpv4
Tshz2
Tspan17
Tssk3
Ttc34
Ttc9b
Ttl19
Ttyh1
Ttyh2
Tub
Tubb6
Tulp1
Ubd
Uchl1
Ugg2
Unc13b
Unc80
Usp13
Vax2
Vgf
Vill
Vipr1
Vps25
Vsnl1
Vsx2
Vwa2
Vwa5b2
Wdfy3
Wdr54
Wdr63
Wipf1
Wipf3
Wnk4

Wnt10b
Wnt2b
Wnt3
Wnt4
Wnt5a
Wnt7b
Xkr7
Zbtb7b
Zbtb8b
Zcchc14
Zdhhc22
Zfp296
Zfp462
Zfp536
Zfp57
Zfp9
Zic1
Zkscan2
Zmynd15

**H3K4me3^{hi} H3K27me3^{hi}
(bivalent)**

1110032F04Rik
1110067D22Rik
1700008O03Rik
1700019E19Rik
1810027O10Rik
2010011I20Rik
2010300C02Rik
2410022L05Rik
2610019F03Rik
2610109H07Rik
2700081O15Rik
2810055F11Rik
5031414D18Rik
5730528L13Rik
6330512M04Rik
6430548M08Rik
6820408C15Rik
8430427H17Rik
9030025P20Rik
9030612E09Rik
9330182L06Rik
9430020K01Rik
9830001H06Rik
A930038C07Rik
Aatf
Abat
Abca3
Abca5
Abcb10
Abhd5
Abhd6
Ablim2
Abr
Acan
Acbd4
Acer2
Acot1
Acp1
Actr3b
Acvr1

Acvr2a
Acvr2b
Adam15
Adamts14
Adamts7
Adap1
Adarb1
Adc
Adcy9
Adora2b
Adrbk2
Afap11
Agap1
Agnat9
Ahnak
Ak4
Alcam
Aldh5a1
Alg11
Als2cl
Amigo1
Amigo2
Ank
Ankrd27
Ankrd34a
Ankrd42
Ankrd6
Anks6
Antxr1
Apba1
Apbb1
Apbb2
Apc2
Aplp1
Aplp2
Apoo
App
Arg2
Arhgap20
Arhgap26
Arhgap27
Arhgap39
Arhgef12

Arhgef17
Arvcf
Asap2
Asap3
Atf6
Atp11a
Atp1b2
Atp5d
Atp7b
Auts2
B230120H23Rik
B3gnt3
B3gnt4
Bace1
Bag3
Bahd1
Bai2
Bambi
Bbc3
BC022687
BC068281
Bcl11a
Bcl2l11
Bcor
Bcorl1
Bcr
Bend6
Bex1
Bhlhe40
Bhlhe41
Bicd1
Bik
Blvrb
Bmp1
Bmp8a
Bmpr1a
Bmpr2
Brsk2
Bsn
Btbd11
Btbd3
Bzrap1
C1ql3

C2cd4a	Chchd7	Dcbld2
C530028O21Rik	Chd7	Dchs1
C85492	Chic1	Dctn3
Cabp1	Chn1	Ddx25
Cacna1b	Chpf	Ddx3y
Cacnb2	Cish	Ddx43
Cacnb3	Cited1	Dennd2a
Cacng4	Cited4	Dennd5a
Cadm1	Ckap4	Dennd5b
Cadm4	Ckb	Depdc7
Camk2n1	Ckmt1	Dgcr14
Camk2n2	Clcf1	Dgkh
Car14	Clec11a	Dlgap4
Car2	Clip4	DIk2
Car8	Clock	Dll1
Card10	Clstn1	Dlx1
Caskin1	Cmtm8	Dmwd
Cbs	Cnm1	Dnaja4
Cbx2	Cnm2	Dnajc6
Cbx4	Cntnap1	Dnm1
Cbx8	Coasy	Dnm3
Ccdc102a	Cobll1	Dock3
Ccdc112	Col23a1	Dock4
Ccdc40	Col27a1	Dock7
Ccdc46	Coro2a	Dock8
Ccnd2	Cpd	Dok4
Ccno	Cpm	Dok7
Cd151	Cpne2	Dos
Cd3eap	Cryzl1	Dpysl5
Cd44	Cspg5	Dse
Cd9	Csrp2	Dsp
Cdc14b	Ctbp2	Dst
Cdc40	Ctnna1	Dstn
Cdc42bpa	Cttnbp2nl	Dtx4
Cdh1	Cux2	Dusp14
Cdk14	Cxadr	Dusp8
Cdkn2a	Cyfp1	Dynlt1b
Cdr2l	D430041D05Rik	E030030I06Rik
Cebpa	D730039F16Rik	E130012A19Rik
Cecr2	Daam1	E330016A19Rik
Cenpv	Dact1	Ebf3
Cgn	Dbnidd1	Eda
Ch25h	Dcbld1	Efemp2

Efna2	Fam43a	Gab2
Efnb1	Fam46a	Gadd45b
Efnb2	Fam46c	Gas2l1
Efr3b	Farp1	Gas8
Egr2	Fat4	Gata3
Egr3	Fbln1	Gbf1
Eid2	Fbxl15	Gcat
Eif4ebp1	Fbxo2	Gdf1
Ell2	Fbxo27	Gdf11
Elovl2	Fbxo43	Gdpd5
Elovl7	Fbxo44	Gem
Emilin2	Fbxw8	Gfpt2
Eml6	Fgd1	Gfra1
Endod1	Fgd4	Ghr
Enpp1	Fgfbp3	Gja1
Epas1	Fgfr3	Gjc1
Epb4.1l1	Fhl1	Gjd3
Epb4.1l4a	Fjx1	Gkap1
Epb4.1l4b	Fkbp10	Glis2
Epb4.1l5	Fkbp11	Glis3
Epdr1	Fkbp1b	Gls2
Ephx4	Flnb	Gnao1
Epn2	Flot1	Gnaz
Ercc1	Fmn2	Gnb4
Espn	Fmnl2	Gng4
Esrp2	Fnbp1l	Golm1
Etnk2	Fndc3b	Gp5
Etv4	Fos	Gpc1
Evl	Fosl2	Gpr124
F2r	Foxb1	Gpr125
Fads3	Foxc1	Gpr156
Fam102a	Foxd2	Gpr25
Fam114a1	Foxj1	Gpr85
Fam129b	Frmd5	Gprc5b
Fam131a	Fscn1	Grasp
Fam131b	Fstl4	Grhl1
Fam159b	Fut4	Gria2
Fam164a	Fzd10	Grin2d
Fam169a	Fzd3	Grm4
Fam171a2	Fzd6	Grm6
Fam174b	Fzd7	Grtp1
Fam184a	Fzd9	Grwd1
Fam184b	Gab1	Gsto1

Gstt3	Ina	Klf4
Gucy1b3	Inf2	Klf5
Gucy2e	Inha	Klf9
Gvin1	Inpp1	Klhl32
Gylt1b	lqsec2	Klhl35
H1fx	Irak3	Klk8
H2-Ab1	Irf4	Klrg2
Hap1	Irf5	Kpna1
Hbegf	Irf8	Ksr2
Hcn1	Irs1	Lag3
Hcn2	Ism1	Lamc1
Hdgfrp3	Itga3	Large
Hecw2	Itga9	Lass1
Hes1	Itgb5	Lats2
Hey1	Itpka	Lca5l
Heyl	Itsn1	Ldlrap1
Hmcn1	Jag1	Leng9
Hmgn3	Jag2	Lgr4
Hoxa3	Jazf1	Lhfpl2
Hoxa4	Jdp2	Lin28b
Hoxa6	Jkamp	Lin7b
Hoxa7	Jub	Lipg
Hoxb4	Jup	Lix1l
Hpd1	Kalrn	Lmbr1
Hr	Kazald1	Lmo7
Hrh3	Kcna2	Lmtk2
Hs1bp3	Kcnab3	Lmtk3
Hsd11b2	Kcnc1	Lmx1b
Hspa1b	Kcng3	Lonrf3
Hspa1l	Kcnh3	Lphn2
Hspa2	Kcnh8	Lrp11
Htr1b	Kcnk6	Lrrc16a
Hunk	Kdelr1	Lrrc16b
Ica1l	Khdrbs3	Lrrc3b
Icam5	Kif13a	Lrrc4
Icosl	Kif1b	Lrrfip1
Id1	Kif26b	Lrrn4
Id2	Kif5a	Lrtm2
Ier3	Kif5c	Ltk
Ier5l	Kifc3	Luzp1
Igf1r	Kit	Lyn
Igf2bp2	Klc2	Lypd1
Igf2bp3	Klf2	Lysmd2

Mab21l2	Mtss1l	Nuak1
Macf1	Mycl1	Nuak2
MacroD2	Mycn	Nxn12
Mad2l2	Myh10	Oaf
Maf	Myo1d	Obsl1
Mafa	Myo1e	Olig3
Mafb	Myo5b	Optn
Magi1	Nacc2	Osbp2
Mamdc4	Nat8l	Osbp11a
Man1c1	Nbea	Otub2
Map3k9	Ncam1	P2ry1
Map6d1	Nckap1	Pacsin3
Mapk11	Ncs1	Paqr4
Mapre2	NdrG4	Pard3b
Mapre3	Neur11a	Pard6b
40244	Nfatc1	Pbx1
40245	Nfe2l3	Pbx3
Marveld1	Nfil3	Pcbp4
Marveld2	Nfix	Pcdh7
Mast4	Nipa1	Pcgf2
Mcam	Nkapl	Pcx
Mdfi	Nkd1	Pcyox11
Megf8	Nkd2	Pde1b
Meis3	Nkx2-4	Pde4a
Mettl1	Nlgn2	Pde8a
Mfsd4	Nln	Pde9a
Mfsd7c	Nog	Pdgfc
Mgat5b	Nos1ap	Pdia5
Mical2	Npas2	Pdzd7
Mixl1	Npnt	Pecr
Mllt4	Npr1	Peli2
Mmp14	Nr2f6	Peli3
Mmp17	Nr3c2	Pfn2
Mn1	Nr4a2	Phf10
Mos	Nr4a3	Phf21b
Mpg	Nr6a1	Phlpp1
Mpped2	Nrg4	Phospho1
Mpzl2	Nrip3	Phpt1
Mras	Nrtn	Pigz
Mreg	Nsg1	Pik3cb
Mtap1a	Ntn1	Pkdcc
Mtap1b	Ntng2	Plag1
Mtap7	Ntrk3	Plagl1

Plau	Prr5	Rgag4
Plbd2	Prss16	Rgmb
Plcd3	Psd	Rgs9bp
Plcg2	Psmb3	Rhbdl3
Plch1	Pstpip2	Rhob
Pld2	Ptgfrn	Rhobtb1
Plec	Ptk2	Rhobtb3
Plekha8	Ptpn13	Rhoq
Plekhf1	Ptpn14	Rhpn2
Plekhh1	Ptpn21	Rimkla
Plekhh3	Ptpn3	Rims3
Plk2	Ptprk	Rnf150
Pls1	Ptprs	Rnf180
Plxna1	Ptpru	Rnf216
Plxnc1	Pus3	Rnf220
Pm20d2	Pvrl3	Rnf38
Pmaip1	Rab11fip3	Rnf39
Pnmal2	Rab15	Rsrc1
Podxl	Rab20	Rtkn
Podxl2	Rab30	Rtn4rl1
Polr2l	Rab34	Rufy4
Polr3gl	Rab39	Rusc1
Pop5	Rab3b	Rusc2
Porcn	Rab6b	Rxra
Pou3f1	Rac3	Rybp
Pou4f1	Racgap1	Ryk
Ppap2b	Ranbp17	Sarm1
Ppfia3	Raph1	Sash1
Ppic	Rasal2	Satb2
Ppip5k1	Rasd1	Scamp1
Ppm1l	Rasgef1b	Scara3
Ppp1r13l	Rasip1	Scin
Ppp1r1b	Rasl10b	Scn4b
Prdm1	Rassf5	Scn5a
Prdm16	Rassf8	Scn8a
Prkaa2	Raver2	Scube3
Prkag2	Rbm20	Sdc1
Prkar2a	Rbm24	Sdc3
Prkce	Rbms1	Sdc4
Prkcz	Rbpms	Sdk1
Proca1	Rbpms2	Sema3f
Prodh	Reep1	Sema4c
Prom1	Reln	Sema4g

Sema6b	Slc6a9	Syne1
Sema6c	Slc7a4	Syne2
40425	Slc9a3r2	Syng3
40428	Slit3	Syt16
Serp2	Smad6	Syt3
Serpine2	Smad7	Sytl3
Sertad4	Smoc1	Tanc2
Sfmbt2	Smpd3	Tbc1d12
Sfxn5	Snta1	Tbc1d16
Sgcb	Sntb1	Tbc1d24
Sgce	Sntb2	Tbc1d30
Sgms1	Snx24	Tbc1d4
Sgtb	Sobp	Tbkbp1
Sh2b2	Socs2	Tbx21
Sh3bgrl2	Sorcs2	Tceal8
Sh3bp4	Sorl1	Tcf7l1
Sh3gl3	Sox12	Tcp1l1l1
Sh3pxd2b	Sox13	Tead1
Sh3yl1	Sox5	Tead3
Shank3	Spata13	Tepp
Shb	Spats2l	Tesc
Shmt2	Spdya	Thrb
Six5	Spin4	Tifa
Skap2	Spire1	Tjp2
Slc11a2	Spire2	Tmbim1
Slc12a2	Spnb1	Tmbim4
Slc16a2	Spnb2	Tmcc2
Slc16a3	Spnb4	Tmem108
Slc17a7	Spns2	Tmem132a
Slc18a2	Spry2	Tmem135
Slc1a1	Spsb1	Tmem150a
Slc22a17	Srcin1	Tmem150c
Slc22a21	Srgap1	Tmem158
Slc22a23	Ssh1	Tmem159
Slc22a3	Sspo	Tmem163
Slc27a2	Sstr2	Tmem198
Slc2a8	St3gal2	Tmem2
Slc35d3	St3gal6	Tmem25
Slc41a2	Stau2	Tmem30b
Slc45a3	Stk39	Tmem44
Slc4a11	Stox1	Tmem51
Slc4a8	Stx1a	Tmem8
Slc6a8	Susd4	Tmie

Tnfrsf12a	Yes1
Tox2	Zbtb10
Tox3	Zbtb16
Tppp	Zbtb46
Traip	Zbtb7a
Trim3	Zbtb8a
Trim7	Zc3h12c
Trio	Zcchc3
Tro	Zdhhc2
Trp73	Zeb2
Trpm4	Zfhx3
Tsc22d3	Zfp277
Tshz3	Zfp316
Tspan18	Zfp318
Tspan33	Zfp354b
Tspan4	Zfp428
Tspan9	Zfp467
Ttc39b	Zfp518b
Ttc8	Zfp580
Ttll11	Zfp608
Tyro3	Zfp711
Ufsp1	Zfp821
Uhrf1bp1	Zfp827
Unc13a	Zfp97
Unc5a	Zfyve28
Unc5b	Zkscan4
Ust	Zswim5
Vash2	Zswim6
Vcan	Zxdb
Vdr	
Vgll4	
Vldlr	
Vps37d	
Vsig10	
Wasf1	
Wdr8	
Wdr86	
Wnk2	
Wscd1	
Wtip	
Wwc2	
Xkr6	
Yap1	