

**Table 1:**

<i>Drosophila</i> gene	Mouse homolog	Homology score	Human homolog	Homology score
Metabolism				
<a href="#">Ancy</a>	<a href="#">Gm4737</a>	+++	<a href="#">AHCY</a>	+++
<a href="#">AncyL1</a>	<a href="#">AncyL1</a>	+++	<a href="#">AHCYL1</a>	+++
<a href="#">AncyL2</a>	<a href="#">AncyL2</a>	+++	<a href="#">AHCYL2</a>	+++
<a href="#">Crtc</a>	<a href="#">Crtc1</a>	+++	<a href="#">CRTC1</a>	+++
<a href="#">mGluR</a>	<a href="#">Grm3</a>	+++	<a href="#">GRM3</a>	+++
<a href="#">CanB</a>	<a href="#">Ppp3r1</a>	+++	<a href="#">PPP3R1</a>	+++
<a href="#">Drp1</a>	<a href="#">Dmn1l</a>	+++	<a href="#">DNM1L</a>	+++
<a href="#">Gcn2</a>	<a href="#">Eif2ak4</a>	+++	<a href="#">EIF2AK4</a>	+++
<a href="#">park</a>	<a href="#">Prkn</a>	+++	<a href="#">PRKN</a>	+++
<a href="#">Pgam5</a>	<a href="#">Pgam5</a>	+++	<a href="#">PGAM5</a>	+++
<a href="#">Pgant4</a>	<a href="#">Galnt10</a>	+++	<a href="#">GALNT10</a>	+++
<a href="#">Pink1</a>	<a href="#">Pink1</a>	+++	<a href="#">PINK1</a>	+++
Signaling				
<a href="#">AMPK<math>\alpha</math></a>	<a href="#">Prkaa2</a>	+++	<a href="#">PRKAA2</a>	+++
<a href="#">Iip3</a>	<a href="#">Igf1</a>	+	<a href="#">INS</a>	+
<a href="#">InR</a>	<a href="#">Insr</a>	+++	<a href="#">INSR</a>	+++
<a href="#">Pi3K21B</a>	<a href="#">Pik3r3</a>	+++	<a href="#">PIK3R3</a>	+++
<a href="#">srl</a>	<a href="#">Pprc1</a>	+++	<a href="#">PPRC1</a>	+++
<a href="#">Tor</a>	<a href="#">Mtor</a>	+++	<a href="#">MTOR</a>	+++
<a href="#">Thor</a>	<a href="#">Eif4ebp1</a>	+++	<a href="#">EIF4EBP1</a>	+++
<a href="#">DI</a>	<a href="#">Dil1</a>	+++	<a href="#">DLL1</a>	+++

<a href="#">N</a>	<a href="#">Notch1</a>	+++	<a href="#">NOTCH1</a>	+++
<a href="#">msn</a>	<a href="#">Tnik</a>	+++	<a href="#">TNIK</a>	+++
<a href="#">wts</a>	<a href="#">Lats2</a>	+++	<a href="#">LATS1</a>	+++
<a href="#">yki</a>	<a href="#">Yap1</a>	+++	<a href="#">YAP1</a>	+++
<a href="#">Upd3</a>	<a href="#">Il-6</a>	N/A	<a href="#">IL-6</a>	N/A
<a href="#">hop</a>	<a href="#">Jak2</a>	+++	<a href="#">JAK2</a>	+++
<a href="#">Stat92E</a>	<a href="#">Stat5b</a>	+++	<a href="#">STAT5B</a>	+++
<a href="#">bsk/JNK</a>	<a href="#">Mapk8</a>	+++	<a href="#">MAPK10</a>	+++
<a href="#">Myc</a>	<a href="#">Myc</a>	++	<a href="#">MYC</a>	++
Other functions				
<a href="#">Brf</a>	<a href="#">Brf1</a>	+++	<a href="#">BRF1</a>	+++
<a href="#">eEF2</a>	<a href="#">Eef2</a>	+++	<a href="#">EEF2</a>	+++
<a href="#">FoxK</a>	<a href="#">Foxk1</a>	+++	<a href="#">FOXK2</a>	+++
<a href="#">Ire1</a>	<a href="#">Ern1</a>	+++	<a href="#">ERN1</a>	+++
<a href="#">Xbp1</a>	<a href="#">Xbp1</a>	+++	<a href="#">XBP1</a>	+++
<a href="#">Atg1</a>	<a href="#">Ulk1</a>	+++	<a href="#">ULK1</a>	+++
<a href="#">bbg</a>	<a href="#">Pdzd2</a>	++	<a href="#">PDZD2</a>	+
<a href="#">Col4a1</a>	<a href="#">Col4a1</a>	+++	<a href="#">COL4A6</a>	+++
<a href="#">crc</a>	<a href="#">ATF4</a>	++	<a href="#">ATF4</a>	++
<a href="#">Piwi</a>	<a href="#">Piwil1</a>	+++	<a href="#">PIWIL3</a>	+++
<a href="#">prom</a>	<a href="#">Prom1</a>	+++	<a href="#">PROM2</a>	+++
<a href="#">Tk</a>	<a href="#">Tac1</a>	+	<a href="#">TAC1</a>	+
<a href="#">Tg</a>	<a href="#">Tgm1</a>	+++	<a href="#">TGM1</a>	+++
<a href="#">Wdr62</a>	<a href="#">Wdr62</a>	+++	<a href="#">WDR62</a>	+++

**Table 1:** *Drosophila* genes discussed in the review with their predicted homolog in Mouse and Human (Homology Score based on [flybase.org](http://flybase.org) algorithm). All genes are linked to their respective NCBI gene entry. Homology score: 1 - 2: +, 3 - 5: ++, 6 - 15: +++

**Table 2**

Mouse gene	<i>Drosophila</i> homolog	Homology Score	Human homolog	Homology Score
Metabolism				
<a href="#">Mtor</a>	<a href="#">Tor</a>	+++	<a href="#">MTOR</a>	+++
<a href="#">Stk11 (Lkb1)</a>	<a href="#">Lkb1</a>	+++	<a href="#">STK11</a>	+++
<a href="#">Mpc1</a>	<a href="#">Mpc1</a>	+++	<a href="#">MPC1</a>	+++
<a href="#">Pdk4</a>	<a href="#">Pdk</a>	+++	<a href="#">PDK4</a>	+++
<a href="#">Cpt1a</a>	<a href="#">whd</a>	+++	<a href="#">CPT1A</a>	+++
<a href="#">Ppard</a>	<a href="#">Eip75B</a>	++	<a href="#">PPARD</a>	+++
<a href="#">Ppara</a>	<a href="#">Eip75B</a>	++	<a href="#">PPARA</a>	+++
<a href="#">Sirt1</a>	<a href="#">Sirt1</a>	+++	<a href="#">SIRT1</a>	+++
<a href="#">Hmgcs2</a>	<a href="#">HMGS</a>	+++	<a href="#">HMGCS2</a>	+++
Signalling				
<a href="#">Wnt3</a>	<a href="#">wg</a>	+	<a href="#">WNT3</a>	+++
<a href="#">Lgr5</a>	<a href="#">rk</a>	+++	<a href="#">LGR5</a>	+++
<a href="#">Ctnnb1</a>	<a href="#">arm</a>	+++	<a href="#">CTNNB1</a>	+++
<a href="#">Notum</a>	<a href="#">Notum</a>	+++	<a href="#">NOTUM</a>	+++
<a href="#">Notch1</a>	<a href="#">N</a>	+++	<a href="#">NOTCH1</a>	+++
<a href="#">Atoh1</a>	<a href="#">cato</a>	+++	<a href="#">ATOH1</a>	+++
<a href="#">Sox9</a>	<a href="#">Sox100B</a>	++	<a href="#">SOX9</a>	+++
<a href="#">Mapk14 (p38)</a>	<a href="#">p38b</a>	+++	<a href="#">MAPK14</a>	+++
<a href="#">Map2k6 (MKK6)</a>	<a href="#">lic</a>	+++	<a href="#">MAP2K6</a>	+++
<a href="#">Trp53</a>	<a href="#">p53</a>	++	<a href="#">TP53</a>	+++

**Table 2:** Mouse genes discussed in the review with their predicted homolog in *Drosophila* and Human (Homology Score based on [flybase.org](http://flybase.org) algorithm). All genes are linked to their respective NCBI gene entry. Homology score: 1 - 2: +, 3 - 5: ++, 6 - 15: +++