S3Table. Differentially expressed IMRGs in Pirk-like<sup>-/-</sup> and WT mosquito fat bodies with *E. cloacae* infection.
Genes with a minimum fold change of 2-fold and a false discovery rate-adjusted p-value (q-value) of < 0.05 were considered differentially expressed.

<table>
<thead>
<tr>
<th>GeneID</th>
<th>Pirk-like&lt;sup&gt;-/-&lt;/sup&gt; Ec12h</th>
<th>Pirk-like&lt;sup&gt;-/-&lt;/sup&gt; Ec24h</th>
<th>Pirk-like&lt;sup&gt;-/-&lt;/sup&gt; PBS12h</th>
<th>Pirk-like&lt;sup&gt;-/-&lt;/sup&gt; PBS24h</th>
<th>WT&lt;sup&gt;-/-&lt;/sup&gt; Ec12h</th>
<th>WT&lt;sup&gt;-/-&lt;/sup&gt; Ec24h</th>
<th>WT&lt;sup&gt;-/-&lt;/sup&gt; PBS12h</th>
<th>WT&lt;sup&gt;-/-&lt;/sup&gt; BS24h</th>
<th>GeneName</th>
</tr>
</thead>
<tbody>
<tr>
<td>AAEL02585</td>
<td>90.7867</td>
<td>185.073</td>
<td>81.03</td>
<td>127.97</td>
<td>30.21</td>
<td>67</td>
<td>64.10</td>
<td>67</td>
<td>CLIPA11</td>
</tr>
<tr>
<td>AAEL014349</td>
<td>55.0733</td>
<td>171.327</td>
<td>39.4667</td>
<td>51.74</td>
<td>21.49</td>
<td>33</td>
<td>20.55</td>
<td>67</td>
<td>CLIPB15</td>
</tr>
<tr>
<td>AAEL006674</td>
<td>72.2267</td>
<td>225.323</td>
<td>57.0767</td>
<td>156.03</td>
<td>63.17</td>
<td>33</td>
<td>212.1</td>
<td>4</td>
<td>CLIPB29</td>
</tr>
<tr>
<td>AAEL003632</td>
<td>4.03667</td>
<td>18.16</td>
<td>11.9667</td>
<td>7.91333</td>
<td>7.173</td>
<td>33</td>
<td>1.876</td>
<td>67</td>
<td>CLIPB39</td>
</tr>
<tr>
<td>AAEL006168</td>
<td>87.0067</td>
<td>59.15</td>
<td>89.7867</td>
<td>52.97</td>
<td>70.61</td>
<td>33</td>
<td>27.25</td>
<td>33</td>
<td>CLIPB42</td>
</tr>
<tr>
<td>AAEL005093</td>
<td>39.0433</td>
<td>124.873</td>
<td>46.4633</td>
<td>55.5</td>
<td>13.55</td>
<td>33</td>
<td>29.94</td>
<td>33</td>
<td>CLIPB46</td>
</tr>
<tr>
<td>AAEL000224</td>
<td>0.15333</td>
<td>0.076666</td>
<td>0.106667</td>
<td>0.0266667</td>
<td>2.46</td>
<td>5.256</td>
<td>67</td>
<td>0.7366</td>
<td>7 CLIPD7</td>
</tr>
<tr>
<td>AAEL014141</td>
<td>19.2467</td>
<td>35.43</td>
<td>32.0333</td>
<td>34.0767</td>
<td>23.76</td>
<td>33</td>
<td>31.90</td>
<td>33</td>
<td>SRPN5</td>
</tr>
<tr>
<td>AAEL006568</td>
<td>6.68333</td>
<td>20.8333</td>
<td>0.54</td>
<td>3.82333</td>
<td>37.42</td>
<td>63</td>
<td>947.3</td>
<td>63</td>
<td>SRPN</td>
</tr>
<tr>
<td>AAEL029047</td>
<td>577.217</td>
<td>847.22</td>
<td>411.823</td>
<td>419.527</td>
<td>25.87</td>
<td>67</td>
<td>61.72</td>
<td>67</td>
<td>CECN</td>
</tr>
<tr>
<td>AAEL003857</td>
<td>1016.31</td>
<td>1132.89</td>
<td>432.797</td>
<td>1302.59</td>
<td>56.27</td>
<td>73</td>
<td>406.3</td>
<td>73</td>
<td>DEFD</td>
</tr>
<tr>
<td>AAEL003832</td>
<td>272.027</td>
<td>156.347</td>
<td>40.6833</td>
<td>9.13333</td>
<td>16.19</td>
<td>33</td>
<td>48.62</td>
<td>33</td>
<td>DEFC</td>
</tr>
<tr>
<td>AAEL027792</td>
<td>94.3</td>
<td>164.06</td>
<td>71.43</td>
<td>127.217</td>
<td>3.793</td>
<td>33</td>
<td>200.5</td>
<td>63</td>
<td>DEFE</td>
</tr>
<tr>
<td>AAEL005641</td>
<td>211.58</td>
<td>753.74</td>
<td>217.437</td>
<td>182.887</td>
<td>34.63</td>
<td>33</td>
<td>118.5</td>
<td>5</td>
<td>CTLGA5</td>
</tr>
<tr>
<td>AAEL011621</td>
<td>3.69333</td>
<td>5.74</td>
<td>4.85667</td>
<td>2.42667</td>
<td>1.846</td>
<td>67</td>
<td>1.75</td>
<td>3</td>
<td>CTLMA13</td>
</tr>
<tr>
<td>AAEL019633</td>
<td>7.12333</td>
<td>5.31333</td>
<td>3.47667</td>
<td>3.57</td>
<td>1.91</td>
<td>33</td>
<td>1.603</td>
<td>33</td>
<td>CTLGA9</td>
</tr>
<tr>
<td>AAEL002524</td>
<td>11.0733</td>
<td>12.4633</td>
<td>6.97667</td>
<td>8.33</td>
<td>2.96</td>
<td>33</td>
<td>15.49</td>
<td>33</td>
<td>CTL24</td>
</tr>
<tr>
<td>AAEL00563</td>
<td>3.79667</td>
<td>1.74</td>
<td>3.65</td>
<td>2.86</td>
<td>6.266</td>
<td>67</td>
<td>7.86</td>
<td>7</td>
<td>CTLMA15</td>
</tr>
<tr>
<td>AAEL015404</td>
<td>57.2533</td>
<td>98.2667</td>
<td>105.79</td>
<td>37.2167</td>
<td>41.57</td>
<td>33</td>
<td>27.23</td>
<td>15.92</td>
<td>LYS7C</td>
</tr>
</tbody>
</table>

**Note:** The values in the table represent fold changes, where positive values indicate upregulation and negative values indicate downregulation. The fold change is calculated as the ratio of gene expression in the experimental condition to the control condition. The q-value is a measure of significance, with lower values indicating greater confidence in the differential expression.
<table>
<thead>
<tr>
<th>Gene</th>
<th>Length1</th>
<th>Length2</th>
<th>Length3</th>
<th>Length4</th>
<th>Length5</th>
<th>Length6</th>
<th>Length7</th>
<th>Length8</th>
<th>Length9</th>
<th>Length10</th>
<th>Length11</th>
<th>Length12</th>
</tr>
</thead>
<tbody>
<tr>
<td>LYSC7A</td>
<td>173.01</td>
<td>60.723</td>
<td>99.69</td>
<td>37.96</td>
<td>38.48</td>
<td>14.613</td>
<td>7.3133</td>
<td>3.8033</td>
<td>0.83</td>
<td>1.4033</td>
<td>TOLL9B</td>
<td>PGRPS1</td>
</tr>
<tr>
<td>PGRPLB</td>
<td>7.18</td>
<td>3.04333</td>
<td>9.79333</td>
<td>1.8</td>
<td>1.0000</td>
<td>0.94333</td>
<td>0.556667</td>
<td>0.92</td>
<td>1.23</td>
<td>1.9033</td>
<td>TOLL4</td>
<td>PGRPLB</td>
</tr>
<tr>
<td>TOLL4</td>
<td>0.38</td>
<td>0.396667</td>
<td>0.31</td>
<td>1.08667</td>
<td>0.706667</td>
<td>0.3677</td>
<td>0.166667</td>
<td>0.3</td>
<td>0.7533</td>
<td>0.7533</td>
<td>TOLL2</td>
<td>TOLL1</td>
</tr>
<tr>
<td>TOLL2</td>
<td>1.14333</td>
<td>2.68667</td>
<td>1.65333</td>
<td>0.95</td>
<td>2.5033</td>
<td>10.55</td>
<td>1.12</td>
<td>3.42</td>
<td>1.02</td>
<td>0.166667</td>
<td>TOLL2</td>
<td>TOLL1</td>
</tr>
<tr>
<td>FREP13</td>
<td>0.46333</td>
<td>0.81</td>
<td>0.556667</td>
<td>0.92</td>
<td>1.23</td>
<td>1.9033</td>
<td>2.816667</td>
<td>7</td>
<td>1.02</td>
<td>0.166667</td>
<td>FREP18</td>
<td>FREP17</td>
</tr>
<tr>
<td>FREP17</td>
<td>1.34667</td>
<td>2.06667</td>
<td>1.01667</td>
<td>0.713333</td>
<td>1.666667</td>
<td>0.85</td>
<td>0.75333</td>
<td>0.7533</td>
<td>0.7533</td>
<td>0.7533</td>
<td>FREP18</td>
<td>FREP17</td>
</tr>
<tr>
<td>FREP18</td>
<td>1.14333</td>
<td>2.68667</td>
<td>1.65333</td>
<td>0.95</td>
<td>2.5033</td>
<td>10.55</td>
<td>1.12</td>
<td>3.42</td>
<td>1.02</td>
<td>0.166667</td>
<td>FREP18</td>
<td>FREP17</td>
</tr>
<tr>
<td>FREP8</td>
<td>1.34667</td>
<td>2.06667</td>
<td>1.01667</td>
<td>0.713333</td>
<td>1.666667</td>
<td>0.85</td>
<td>0.75333</td>
<td>0.7533</td>
<td>0.7533</td>
<td>0.7533</td>
<td>FREP18</td>
<td>FREP17</td>
</tr>
</tbody>
</table>