Supplementary Figure 10. Spatiotemporal expression patterns for individual *D. melanogaster* genes with only mel-group orthologs (present in *Dmel/sim/sech/ere/yak/ana*).
mel–group Acp53C14b – CG15616
mel−group Acp76A – CG3801

FPKM

Tissue
mel−group Amy−d – CG17876
<table>
<thead>
<tr>
<th>Tissue</th>
<th>mel-group Ant2 – CG1683</th>
</tr>
</thead>
<tbody>
<tr>
<td>Larval fat</td>
<td></td>
</tr>
<tr>
<td>Larval midgut</td>
<td></td>
</tr>
<tr>
<td>Pupae 12 hr after WPP</td>
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<tr>
<td>Pupae 24 hrs after WPP</td>
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</tr>
<tr>
<td>Pupae 2 days after WPP</td>
<td></td>
</tr>
<tr>
<td>Pupae 3 days after WPP</td>
<td></td>
</tr>
<tr>
<td>Pupae 4 days after WPP</td>
<td></td>
</tr>
<tr>
<td>WPP fat body</td>
<td></td>
</tr>
<tr>
<td>WPP+2 days CNS</td>
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</tr>
<tr>
<td>WPP salivary glands</td>
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</tr>
<tr>
<td>Malphigian tubules</td>
<td></td>
</tr>
<tr>
<td>Adult fat</td>
<td></td>
</tr>
<tr>
<td>Adult midgut</td>
<td></td>
</tr>
<tr>
<td>Adult mated female 1 day Post−eclosion heads</td>
<td></td>
</tr>
<tr>
<td>Adult mated female 4 days Post−eclosion heads</td>
<td></td>
</tr>
<tr>
<td>Adult virgin female 4 days Post−eclosion heads</td>
<td></td>
</tr>
<tr>
<td>Adult mated female 20 days Post−eclosion heads</td>
<td></td>
</tr>
<tr>
<td>Adult virgin female 4 days Post−eclosion ovaries</td>
<td></td>
</tr>
<tr>
<td>Adult mated female 4 days Post−eclosion ovaries</td>
<td></td>
</tr>
<tr>
<td>Adult mated male 1 day Post−eclosion heads</td>
<td></td>
</tr>
<tr>
<td>Adult mated male 4 days Post−eclosion heads</td>
<td></td>
</tr>
<tr>
<td>Adult mated male 4 days Post−eclosion testes</td>
<td></td>
</tr>
<tr>
<td>Adult mated male 1 day Post−eclosion accessory glands</td>
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</tr>
<tr>
<td>Larval fat and testes</td>
<td></td>
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</table>
mel–group CG11261 – CG11261
mel–group CG11756 – CG11756
mel–group CG12699 – CG12699
mel−group CG13385 – CG13385

Tissue

FPKM
mel–group CG13771 – CG13771
mel–group CG14443 – CG14443
mel–group CG14957 – CG14957
mel–group CG16710 – CG16710
mel–group CG16741 – CG16741

FPKM

Tissue
mel-group CG17010 – CG17010
mel–group CG17098 – CG17098
mel–group CG17287 – CG17287
mel–group CG17349 – CG17349

Tissue

FPKM
mel–group CG17803 – CG17803

Tissue
mel–group CG18281 – CG18281
mel–group CG18478 – CG18478

Tissue

FPKM
mel–group CG18558 – CG18558
<table>
<thead>
<tr>
<th>Tissue</th>
<th>FPKM</th>
</tr>
</thead>
<tbody>
<tr>
<td>mel−group CG30178 − CG30178</td>
<td>625</td>
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</table>
mel–group CG30416 – CG30416
mel–group CG31391 – CG31391
mel–group CG32219 – CG32219

FPKM

Tissue
mel−group CG32845 – CG32845
mel−group CG33233 – CG33233

Tissue

FPKM
mel-group CG34225 – CG34225
mel–group CG34312 – CG34312
mel–group CG4270 – CG4270
mel-group CG43236 – CG43236
mel–group CG43321 – CG43321

Tissue

FPKM
mel–group CG43401 – CG43401
mel–group CG4483 – CG4483
mel–group CG45487 – CG45487
mel–group CG45691 – CG45691
mel−group CG5078 – CG5078

Tissue

FPKM
mel−group CG6052 – CG6052
null
mel–group CG7377 – CG7377
mel–group CG8001 – CG8001

Tissue

FPKM
mel–group CG8006 – CG8006
mel–group CG8517 – CG8517
mel–group CG8673 – CG8673

FPKM

Tissue
mel-group CG8870 – CG8870
mel–group CheB98a – CG14531

FPKM
mel−group CkIIalpha−i3 − CG3217
mel–group CR33487 – CR33487

Tissue

FPKM
mel−group CR33496 − CR33496
mel–group Gr93d – CG31335
mel-group Hsp67Bb – CG4456
mel-group Met75Ca – CG32197
mel–group p38c – CG33338
mel–group Pde6 – CG8279
mel–group Rpn13R – CG6789
mel−group Rpt6R – CG2241

![Graph showing FPKM values for various tissues and cell lines.](image-url)
mel-group S-Lap1 – CG6372
mel–group Tim13 – CG11611
mel–group VhaPPA1–2 – CG7026