

Table S3. Test statistics for comparison between dorsal/ventral and anterior/posterior retina compartments

| Species | Strain | Gender | N | p values ¹ | |
|------------------------|--------|--------|---|-----------------------|----------------------|
| | | | | dorsal/ | ant/post |
| | | | | ventral | |
| <i>D. mauritiana</i> | TAM16 | f | 3 | 0.235 | 0.018 * |
| | | m | 3 | 0.665 | 0.069 |
| <i>D. simulans</i> | ZOM4 | f | 3 | 0.642 | <0.001 *** |
| | | m | 3 | 0.524 | <0.001 *** |
| <i>D. melanogaster</i> | OreR | f | 3 | 0.139 | 0.249 |
| | | m | 3 | 0.813 | 0.023 * |
| <i>D. melanogaster</i> | Zi372 | f | 3 | 0.015 * | 0.440 |
| | | m | 1 | 0.901 ² | 0.192 ² |

¹ replicated G test for pooled data except for: ² G test for one retina only.