

Supplementary Table 1: **The chromosomal distribution of genes in the expression datasets**

| Stage | Comparison | 2L | 2R | 3L | 3R | X | Total |
|---------|------------|------|------|------|------|------|-------|
| Embryos | species | 579 | 651 | 677 | 798 | 314 | 3019 |
| Embryos | strains | 2267 | 2521 | 2437 | 3005 | 1998 | 12228 |
| Adults | species | 1214 | 1360 | 1215 | 1662 | 881 | 6332 |
| Adults | strains | 1694 | 1843 | 1721 | 2217 | 1275 | 8750 |