

Supplementary Table 7: Expected and Observed Phenotype Frequency

| Chromosome | No Genes* | % | Expected Phenotypes | | Observed Phenotypes | |
|-------------------|------------------|----------|----------------------------|------------|----------------------------|------------|
| | | | Pos | Neg | Pos | Neg |
| X | 2251 | 16.1% | 11 | 4 | 18 | 0 |
| 2L | 2571 | 18.4% | 12 | 4 | 10 | 5 |
| 2R | 2709 | 19.4% | 13 | 5 | 5 | 7 |
| 3L | 2666 | 19.0% | 13 | 5 | 15 | 4 |
| 3R | 3400 | 24.3% | 16 | 6 | 14 | 8 |
| 4 | 81 | 0.6% | 0 | 0 | 0 | 0 |
| Unmapped | 320 | 2.3% | 2 | 1 | 4 | 0 |

*Mapping information according to release 4.2 of the Berkeley Drosophila Genome Project (obtained from flybase.org)