**Supplementary Table**

Table S1.

Results of F1 and F2 genetic crosses (5 replicates) between homozygous light and dark strains of *D. punjabiensis* for female progeny scored. Only females demonstrate body color polymorphism.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| GeneticCrosses | Type/Replicate | ♀ Flies scored\*(*n*) | Light ♀ morph(Frequency %) | Dark ♀ morph (Frequency %) | Mendelianratio | χ 2test |
| A Light ♀ \* Dark ♂F1A♀\* F1A♂B Dark ♀ \* Light ♂F1A♀\* F1A♂ |  F1 F2: 12345 F1 F2: 12345 | 1001051251131069510010611311695115 | 10079958579711008085877286 | 0263028272402628292329 | ------3.04:13.16:13.03:12.92:12.96:1-----3.07:13.03:13.00:13.13:12.96:1 | -----NSNSNSNSNSNSNSNSNSNS |