| **Mutation** | **Inheritance pattern** | **Genotypes possible for wild-type phenotypes** | **Genotypes possible for mutants** |
| --- | --- | --- | --- |
| vestigial wings | recessive | +/+; +/*vg* | *vg*/*vg* |
| curly wings | dominant | +/+ | *Cy*/+; *Cy*/*Cy*  |
| eyeless | recessive | +/+; +/*ey* | *ey*/*ey* |
| ebony body color | recessive | +/+; +/*e* | *e*/*e* |
| white eyes | X-linked | Female: X+/X+; X+/XwMale: X+/Y | Female: Xw/XwMale: Xw/Y |

*The genetics of fruit flies—inheritance patterns and genotypes*

| **Phenotype** | **Inheritance Pattern of Mutation** | **Possible Genotypes** |
| --- | --- | --- |
|  wild type |  N/A |  +/+, or +/? for recessive mutations |
|  vestigial wings |  recessive |  *vg/vg* |
|  curly wings |  dominant |  Cy/+; Cy/Cy |
|  eyeless(reduced eye size) |  recessive |  *ey/ey* |
|  ebony body color |  recessive |  *e/e* |
|  white eyes |  X-linked | Female: Xw/XwMale: Xw/Y |