

Table S4 *nod* progeny count data. Experimental females were crossed to tester males in vials, brooded once on day 5, and progeny scored as for *ald* alleles. Columns are the same as Table S2; however note that these flies carried isosequential X chromosomes which recombine normally, so NDJ was mainly restricted to chromosome 4. The *nod*/+ heterozygous control exhibited 0.12% X and 0.29% 4 NDJ, close to expected wildtype background rates (ZHANG and HAWLEY 1990) indicating that the mutant allele is fully recessive. The *nod* homozygotes exhibited 2.2% X and 78.4% 4, with nullo progeny accounting for 50% of X and 95.1% of 4 NDJ.

| Progeny | <i>y w</i> ♂ | <i>B</i> ♀ | <i>y w; ci ey^R</i> ♂ | <i>B; ci ey^R</i> ♀ | <i>y w; pol</i> ♂ | <i>B; pol</i> ♀ | <i>vf B</i> ♂ | <i>y w</i> ♀ | <i>vf B; pol</i> ♂ | <i>y w; ci ey^R</i> ♀ | <i>vf B; ci ey^R</i> ♂ | <i>y w; pol</i> ♀ |
|--------------------------|---------------|------------|---------------------------------|-------------------------------|-------------------|-----------------|-------------------|--------------|-----------------------------|---------------------------------|----------------------------------|-------------------|
| Sperm | ∅ 44 | XY 44 | ∅ 44 | XY 44 | ∅ ∅ | XY ∅ | XY 44 | ∅ 44 | XY ∅ | ∅ 44 | XY 44 | ∅ ∅ |
| Oocyte | X 4 | X 4 | X ∅ | X ∅ | X 44 | X 44 | ∅ 4 | XX 4 | ∅ 44 | XX ∅ | ∅ ∅ | XX 44 |
| | Normal | | 4-only NDJ | | | | X-only NDJ | | X & 4 Double NDJ | | | |
| <i>nod^d/+</i> | 954 | 772 | 0 | 2 | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 |
| <i>nod^d</i> | 419 | 290 | 1279 | 1218 | 71 | 51 | 5 | 8 | 3 | 10 | 11 | 1 |