

Review of: "The Assembly of the Y Chromosome Reveals Amplification of Genes Regulating Male Fertility in *Bactrocera Dorsalis*"

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Potential competing interests: No potential competing interests to declare.

The manuscript "The assembly of the Y chromosome reveals amplification of genes regulating male fertility in *Bactrocera Dorsalis*" assembled the genome of *B. dorsalis* at the chromosome level, including the first reported Y chromosome in Tephritidae, and identified 32 copies of the gyfY gene on the Y chromosome, which are essential for male fertility. The results provide essential information for the development of novel control strategies against tephritid flies.

Minor issues:

1. Please add references to judge fake genes in section 2.5.
2. There was also genome resequencing for female flies in section 3.3. Where did the female samples come from?
3. Please add the horizontal and vertical coordinates for Figures 2a and 2b.
4. Please include the results of RNAi efficacy following the injection of dsRNA in Section 3.4.