

## Description of Additional Supplementary Files

File Name: Supplementary Data 1

Description: Differentially expressed genes in *B. okinawaensis* wild-type hermaphrodites relative to wild-type males. Genes upregulated in the hermaphrodites or males are defined as feminine genes (highlighted in red) and masculine genes (highlighted in blue), respectively.

File Name: Supplementary Data 2

Description: Significantly enriched GO terms for genes that were differentially expressed (DEs) between the wild-type females and males.

File Name: Supplementary Data 3

Description: Differentially expressed genes in *B. okinawaensis sy867* hermaphrodites (+/+, *tra*/+) relative to wild-type hermaphrodites. Feminine genes and masculine genes are highlighted in red and blue, respectively.

File Name: Supplementary Data 4

Description: Significantly enriched GO terms for genes that were differentially expressed (DEs) between the wild-type hermaphrodite and *tra*-mutant (*sy867*) hermaphrodite (+/+, *tra*/+).

File Name: Supplementary Data 5

Description: Differentially expressed genes in *B. okinawaensis sy867* males (*tra/tra*) relative to wild-type males. Feminine genes and masculine genes are highlighted in red and blue, respectively.

File Name: Supplementary Data 6

Description: Significantly enriched GO terms for genes that were differentially expressed (DEs) between the wild-type male and *tra*-mutant (*sy867*) male (*tra/tra*).

File Name: Supplementary Data 7

Description: Cluster 2 gene list in Figure 6d.

File Name: Supplementary Data 8

Description: Cluster 5 gene list in Figure 6d.