**Abbreviations used:**

FSB: Cold shock selected population derived from BRB population

FCB: Cold shock control population derived from BRB population

Period 4 h: 4 hours post cold shock

Period 12 h: 12 hours post cold shock

Period 30 h: 30 hours post cold shock

Treatment: Cold shock, No shock (see methods section for details)

Other essential information

The four sheets of the file contain data from the assays done in for the following four experiments:

Experiment 1.1: The effect of cold shock on pre- and post-copulatory traits

(A) Mating latency (minutes)

(B) Copulation duration (minutes)

(c) Mating success: proportion of males that mated

(D) Male fertility: proportion of fertile males

Experiment 1.2: Progeny production of ancestral females mated with cold shocked males

(A)Progeny production of ancestral females mated with cold shocked males

(B) Ancestral females that produced progeny after exposing with cold shocked males

Experiment 1.3: Pre- and post-copulatory traits in males not subjected to cold shock

(A) Mating latency (minutes)

(B) Copulation duration (minutes)

(c) Mating success; proportion of males that mated

(D) Male fertility; proportion of fertile males

(E) Number of progeny sired by male

Experiment 2: Effect of cold shock on sperm offence ability

(A) Sperm offence ability; proportion of red eyed progeny

(B) Proportion of females that produced zero red eyed progeny

S1 Supporting Information: Data for dry body weight (in milligram) of males.