



**Figure S1: Spontaneous loss of SEC in intestinal cells does not require a heat shock response**

A) Expression of the *his-72* ORF measured by qPCR in *mNG<sup>SEC</sup>3xFlag::his-72* initial insertion strains (LP309 and LP311) following the indicated treatments. Results are the means of three replicate measurements from one experiment, and error bars indicate standard deviations.

B) mNG fluorescence in intestinal cells of *mNG<sup>SEC</sup>3xFlag::his-72* animals with or without *hsf-1* RNAi. Shown are maximum intensity projections through the portion of the Z stack that includes intestinal cells. The nuclear signal is indicative of spontaneous SEC excision. Scale bars represent 20  $\mu$ m.