



Supplementary Figure 3 A neural sub-circuit is required for sensing and transducing mitochondrial stress. **(A)** Neurons not able to induce peripheral UPR^{mt} when *spg-7* is deleted. Quantification of *hsp-6p::GFP* reporter induction in animals expressing Cas9-*spg-7-sg* under neural-specific promoters is shown. $n \geq 29$, error bars indicate mean \pm SE. **(B)** Peripheral induction of *hsp-6p::GFP* in animals containing Cas9-

spg-7-sg in two types of sensory neurons. $n \geq 30$, error bars indicate mean \pm SE. A

Student's t-test is used to assess significance. (C) Lifespan analysis of *hsp-6p::GFP*

control strain and transgenic lines containing *spg-7* knockout in each indicated

neurons.