



**Figure S1** *sptf-1* deficiency causes anomalous ectopic neuronal expression of fluorescence reporters of genes normally expressed in ASJ neurons. **A)** In some cases, *sptf-1* arrested L1 larvae display very weak GFP labeling in ASJ neurons, possibly due to maternal effect. **B,C,D)** In other cases, transgenic animals expressing ASJ fluorescence reporters display signal in several additional neurons in the head area.