A	B SQST-1::GFP	C SQST-1::GFP	D SQST-1::GFP
wild type	wild type	atg-3(bp412)	rpl-43(bp399)
E	F L1 SQST-1::GFP	G	H L2 SQST-1::GFP
atg-3(bp412)	atg-3(bp412)	atg-3(bp412)	atg-3(bp412)
I	J L3 SQST-1::GFP	K	L L4 SQST-1::GFP
atg-3(bp412)	atg-3(bp412)	atg-3(bp412)	atg-3(bp412)
M	N L1 SQST-1::GFP	0	P L2 SQST-1::GFP
rpl-43(bp399)	rpl-43(bp399)	rpl-43(bp399)	rpl-43(bp399)
Q rpl-43(bp399)	<b>R</b> L3 SQST-1::GFP <i>rpl-43(bp399)</i>	<b>S</b> rpl-43(bp399)	T L4 SQST-1::GFP rpl-43(bp399)
U DAPI	V Anti-SQST-1	W DAPI	X Anti-SQST-1
wild type	wild type	rpl-43(bp399)	rpl-43(bp399)
<b>Y</b> DAPI <i>rpl-43(bp399)</i>	Z SQST-1::GFP	A2 Anti-Ub	B2 Merge
C2 rps-I(RNAi)	<b>D2</b> SQST-1::GFP	E2 rpl-2(RNAi)	<b>F2</b> SQST-1::GFP <i>rpl-2(RNAi)</i>

## Fig S1|Accumulation of SQST-1 aggregates in the intestine in *rpl-43* mutant larvae

- (A-D) Expression of SQST-1::GFP in wild type (A-B), *atg-3(bp412)* (C) and *rpl-43(bp399)* (D) mutants at the 4-fold embryonic stage. SQST-1::GFP accumulates into a large number of aggregates in *atg-3(bp412)* mutants but is weakly expressed and diffusely localized in wild type and *rpl-43(bp399)* mutant embryos. (A): DIC image of the embryo shown in B.
- (E-L) The temporal pattern of SQST::GFP aggregates in the intestine in *atg-3(bp412)* mutants at the L1, L2, L3 and L4 stages. (E), (G), (I) and (K): DIC images of the animals shown in (F), (H), (J) and (L), respectively.
- (M-T) The temporal pattern of SQST::GFP aggregates in the intestine in *rpl-43(bp399)* mutants at different larval stages. (M), (O), (Q) and (S): DIC images of the animals shown in (N), (P), (R) and (T), respectively.
- (U-V) Endogenous SQST-1, detected by anti-SQST-1, does not form aggregates in the intestine in wild-type larvae.
- (W-X) Endogenous SQST-1 forms a large number of aggregates in the intestine in *rpl-43(bp399)* mutant animals. (U) and (W): DAPI images of the animals shown in (V) and (X), respectively.
- (Y-B2) In *rpl-43(bp399)* mutant larvae, SQST-1 aggregates in the intestine are also stained by anti-ubiquitin antibody. DAPI image shows the animal in the same row.

(C2-F2) Accumulation of SQST-1::GFP aggregates in *rps-1(RNAi)* (C2,D2) and *rpl-2(RNAi)* (E2,F2) animals. (C2) and (E2): DIC images of the animals shown in (D2) and (F2), respectively.

Scale bars: 10 μm (A-D,U-X); 20 μm (E-T,Y-F2). *C. elegans* embryos remain the same size during embryogenesis. Thus, the scale bar is only shown once in each figure.