SUPPLEMENTARY MATERIAL

Table S1. *spe-18* genetic mapping data

Two-factor mapping

Genotype	**Recombinants**	**Segregation**
unc-4 spe-18 / + +	Unc Non-Spe	8/72
rol-1 spe-18 / + +	Rol Non-Spe	13/114

SNIP SNP mapping (Rol Non-Spe recombinants)

Marker	**Genetic**	**Molecular**	**Marker N2**
unc-4	1.77	9898 kb	
rol-1	6.90	12172 kb	
pkP2112	13.20	12990 kb	5/18
pkP2116	16.09	13235 kb	0/18
pkP2154	19.17	13647 kb	1*/17

*presumed double-cross over event

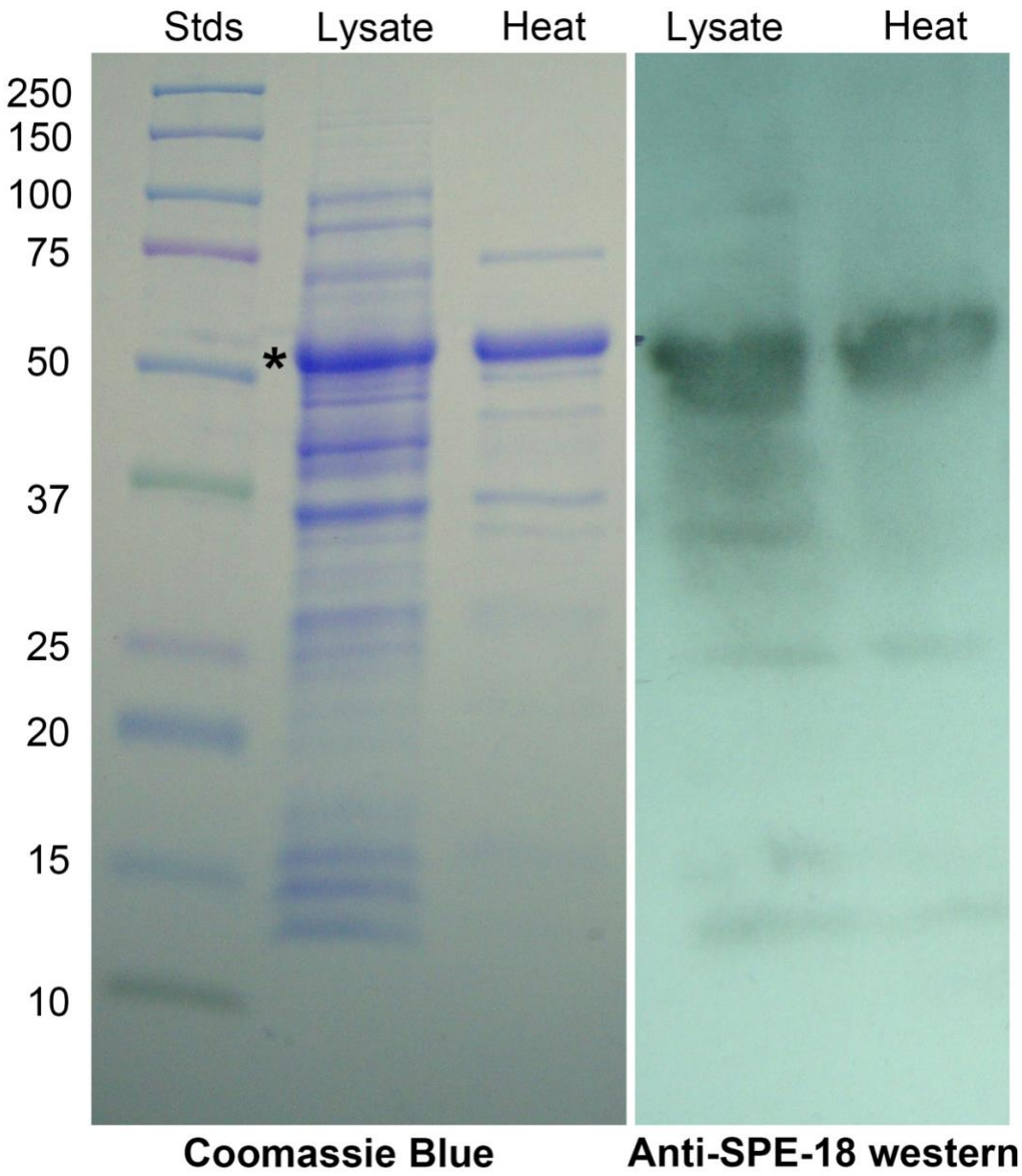

Figure S1. Heat treatment of supernatant +/- 95^{o}C heat treatment from *E. coli* expression *C. elegans* SPE-18 fused to an 8.2 kDa Profinity eXact tag (Bio-Rad). The Coomassie blue gel of lysate from induced bacteria and corresponding western blot with anti-SPE-18 antibody (see methods and figure 4 for antibody details).

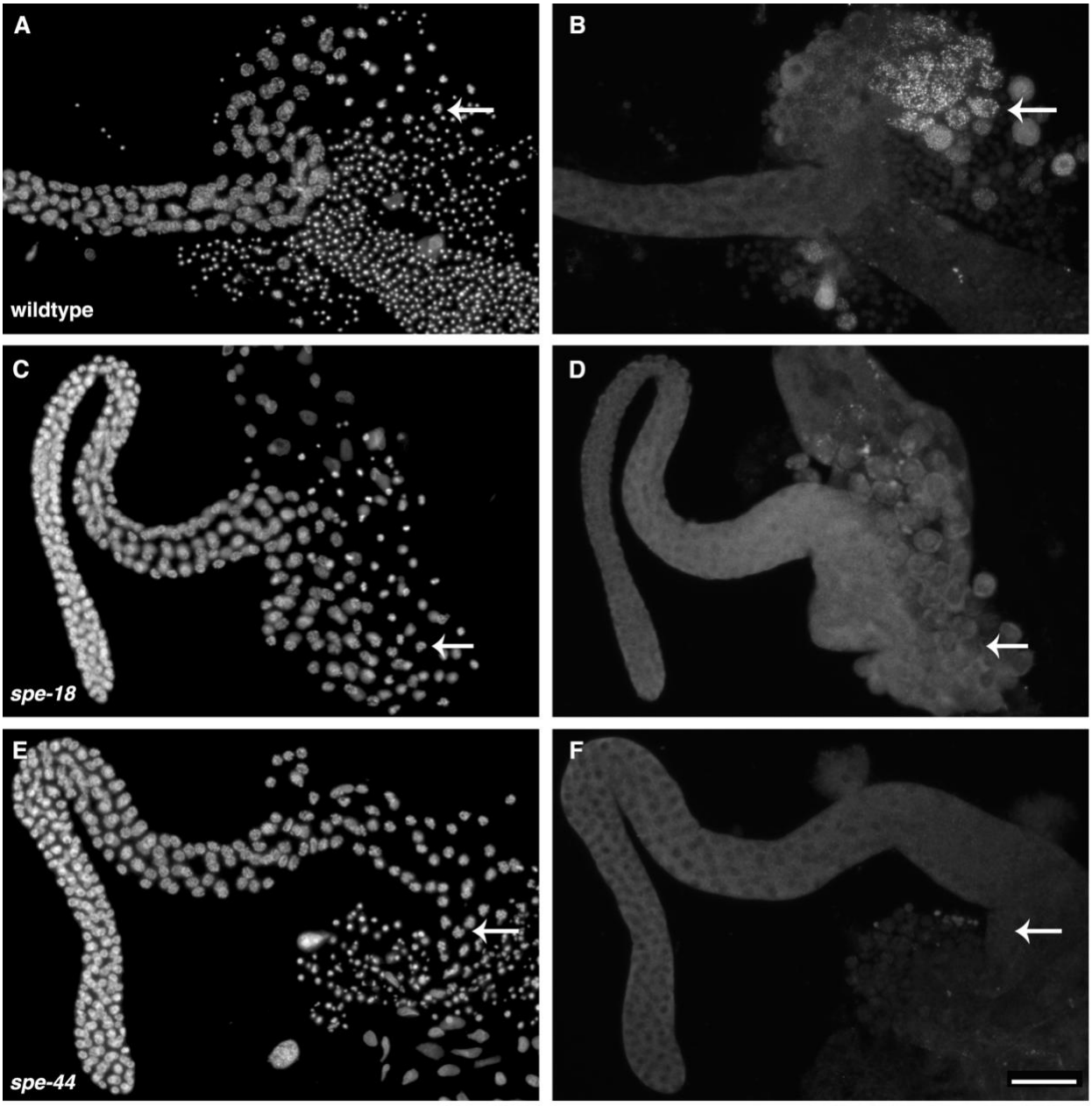

Figure S2. Isolated whole gonads from wildtype, *spe-18*, and *spe-44* males co-labelled with DAPI (A,C,E) and anti-SPE-18 antibodies (B,D,F). Arrows indicated metaphase I spermatocytes. Samples were prepared at the same time and photographed with identical exposures. Scale bar = 20 microns.

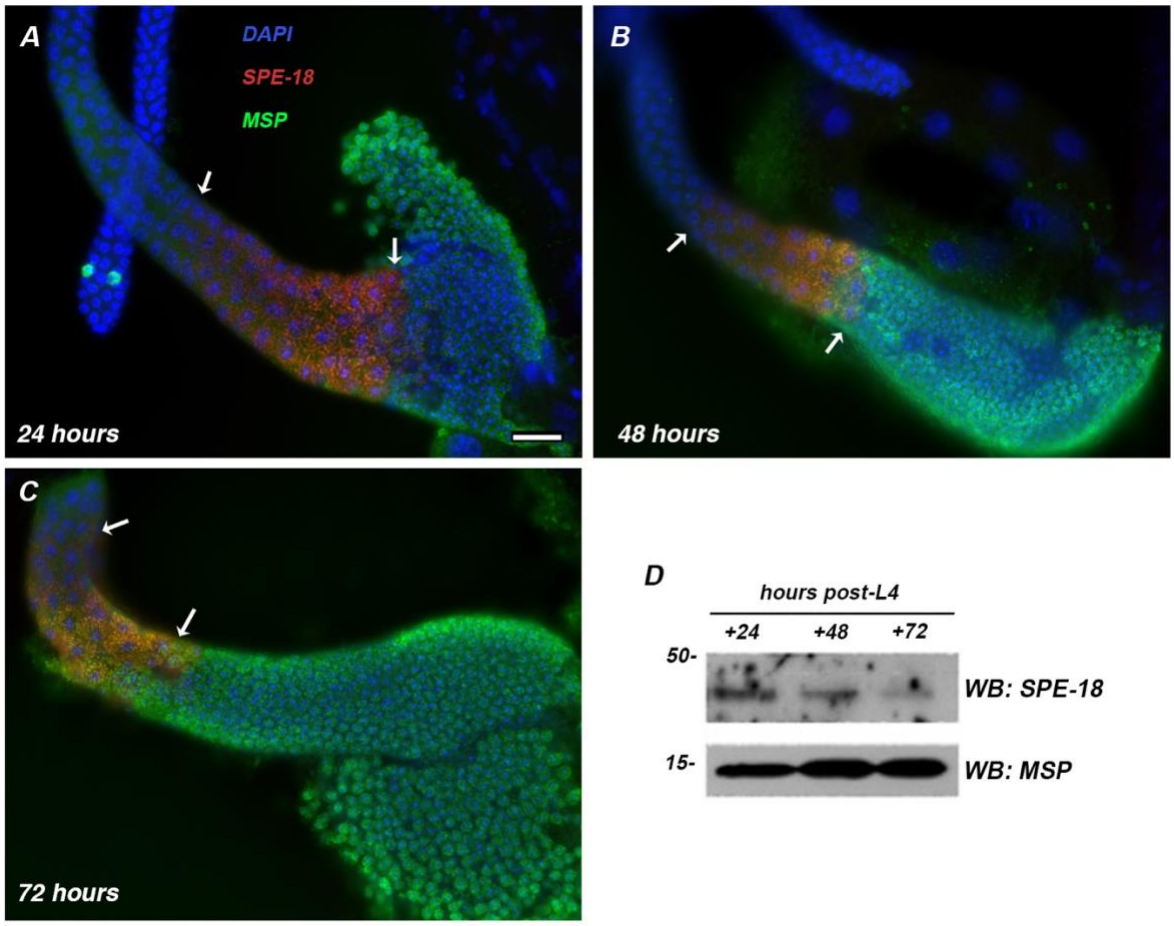

Figure S3. Isolated gonads co-labelled with DAPI(blue), anti-SPE-18 (red), and anti-MSP(green) antibody in synchronized, aging celibate wildtype males (A-C) and anti-SPE-18 western blot of sibling male populations (D). Arrows delineate the boundaries of SPE-18 labelling within each gonad. Scale bar = 10 microns.