

Generation	Strain (+ RNAi)	Mean +/- SD	Median	p values	# worms	Figure
15	WT + EV	19.435 +/- 0.570	18		70/90	S4b
15	WT + <i>daf-16</i>	16.830 +/- 0.439	16	0.0003	73/90	S4b
15	<i>spr-5(by101)</i> + EV	23.164 +/- 0.678	23	0.0002	54/90	S4b
15	<i>spr-5(by101)</i> + <i>daf-16</i>	19.394 +/- 0.697	21	0.0002	53/90	S4b
15	WT + EV	18.445 +/- 0.509	18		78/90	
15	WT + <i>daf-16</i>	16.380 +/- 0.376	16	0.0006	80/90	
15	<i>spr-5(by101)</i> + EV	22.489 +/- 0.731	23	<0.0001	39/90	
15	<i>spr-5(by101)</i> + <i>daf-16</i>	20.749 +/- 0.782	21	0.0682	32/90	
15	WT + EV	16.520 +/- 0.414	17		86/90	3d
15	WT + <i>daf-36</i>	16.800 +/- 0.505	15	0.3868	77/90	3d
15	WT + <i>kri-1</i>	17.693 +/- 0.455	17	0.0542	73/90	
15	<i>spr-5(by101)</i> + EV	23.827 +/- 0.658	25	<0.0001	64/90	3d
15	<i>spr-5(by101)</i> + <i>daf-36</i>	18.461 +/- 0.558	19	<0.0001	48/90	3d
15	<i>spr-5(by101)</i> + <i>kri-1</i>	21.313 +/- 0.852	19	0.1961	52/90	
15	WT + EV	17.561 +/- 0.492	17		88/90	S4d
15	WT + <i>daf-36</i>	17.047 +/- 0.481	17	0.5664	60/90	
15	WT + <i>kri-1</i>	17.323 +/- 0.497	17	0.6305	61/90	S4d
15	<i>spr-5(by101)</i> + EV	24.463 +/- 0.692	25	<0.0001	55/90	S4d
15	<i>spr-5(by101)</i> + <i>daf-36</i>	17.650 +/- 0.722	17	<0.0001	53/90	
15	<i>spr-5(by101)</i> + <i>kri-1</i>	22.443 +/- 0.904	19	0.8132	54/90	S4d
5	WT	16.964 +/- 0.332	17		82/89	
5	<i>spr-5(by101)</i>	17.953 +/- 0.533	17	0.0528	63/90	
5	WT + dafachronic acid	20.846 +/- 0.474	21	<0.0001	83/90	
5	<i>spr-5(by101)</i> + dafachronic acid	20.988 +/- 0.760	19	0.0012	55/90	
6	WT	17.830 +/- 0.379	17		77/89	3h
6	<i>spr-5(by101)</i>	17.600 +/- 0.669	17	0.7410	54/90	3h
6	WT + dafachronic acid	20.414 +/- 0.418	21	<0.0001	86/90	3h
6	<i>spr-5(by101)</i> + dafachronic acid	21.044 +/- 0.655	23	0.0005	53/90	3h
15	WT	21.714 +/- 0.542	22	<0.0001	91/91	3i
15	<i>spr-5(by101)</i>	26.342 +/- 0.708	28	<0.0001	64/90	3i
15	<i>spr-5(by134)</i>	26.700 +/- 0.675	28	<0.0001	80/90	3i
15	WT + dafachronic acid	28.282 +/- 0.702	30	<0.0001	85/90	3i
15	<i>spr-5(by101)</i> + dafachronic acid	27.366 +/- 0.766	28	0.4055	62/90	3i
15	<i>spr-5(by134)</i> + dafachronic acid	27.187 +/- 0.669	28	0.1221	77/90	3i
15	WT	21.917 +/- 0.538	22		96/96	
15	<i>spr-5(by101)</i>	26.462 +/- 0.821	24	<0.0001	52/90	
15	<i>spr-5(by134)</i>	27.443 +/- 0.742	28	<0.0001	57/90	
15	WT + dafachronic acid	27.269 +/- 0.745	28	<0.0001	93/93	
15	<i>spr-5(by101)</i> + dafachronic acid	27.284 +/- 0.896	30	0.6714	54/90	
15	<i>spr-5(by134)</i> + dafachronic acid	26.457 +/- 0.889	28	0.2815	55/90	

Supplementary Table 5. *spr-5(by101)* mutant worms' transgenerational extended longevity is dependent on *daf-36* but independent of *daf-16* and *kri-1* and dafachronic acid extends the lifespan of wildtype but not late generation *spr-5* mutant worms

The figure panels in which specific experiments are shown or used are indicated in the right column. The mean lifespan and SD values were calculated by StatView from triplicate samples of 30 worms each (90 worms total). # worms: number of observed dead worms at the end of the experiment/number of alive worms at the beginning of the experiment. The difference between both numbers corresponds to the number of censored worms (worms that underwent "matricide", exhibited ruptured vulva, or crawled off the plates). P values are calculated by log rank (Mantel-Cox) statistical test.