

**Table S1. All survival data. Repeats 1 are graphed in indicated figures.**

<b>Figures</b>	<b>Strain/Treatment</b>	<b>Mean survival time ± SEM (hours)</b>	<b># Worms Censored/Total</b>	<b>P value</b>
<b>Fig 1A</b>	WT	9.60 ± 0.30	1/40	
<b>repeat 1</b>	<i>skn-1</i> gof	8.05 ± 0.15	0/40	<0.001 <sup>a</sup>
<b>Fig 1A</b>	WT	8.42 ± 0.24	1/40	
<b>repeat 2</b>	<i>skn-1</i> gof	7.27 ± 0.20	2/40	<0.001 <sup>a</sup>
<b>Fig 1A</b>	WT	10.71 ± 0.32	6/45	
<b>repeat 3</b>	<i>skn-1</i> gof	9.26 ± 0.29	0/46	0.002 <sup>a</sup>
<b>Fig 1B</b>	WT	24.50 ± 2.39	2/41	
<b>repeat 1</b>	<i>skn-1</i> gof	15.09 ± 1.16	1/40	<0.001 <sup>a</sup>
<b>Fig 1B</b>	WT	23.47 ± 1.18	1/40	
<b>repeat 2</b>	<i>skn-1</i> gof	15.00 ± 0.82	0/40	<0.001 <sup>a</sup>
<b>Fig 1B</b>	WT	22.50 ± 1.14	0/40	
<b>repeat 3</b>	<i>skn-1</i> gof	13.20 ± 0.57	0/40	<0.001 <sup>a</sup>
<b>Fig 1C</b>	WT	19.80 ± 1.73	0/40	
<b>repeat 1</b>	<i>skn-1</i> gof	12.30 ± 0.30	0/40	<0.001 <sup>a</sup>
<b>Fig 1C</b>	WT	34.84 ± 3.25	1/37	
<b>repeat 2</b>	<i>skn-1</i> gof	18.56 ± 2.39	0/39	<0.001 <sup>a</sup>
<b>Fig 1C</b>	WT	33.26 ± 2.43	0/35	
<b>repeat 3</b>	<i>skn-1</i> gof	15.64 ± 1.58	1/33	<0.001 <sup>a</sup>
<b>Fig 1G</b>	WT	13.54 ± 0.30	0/35	
<b>repeat 1</b>	<i>skn-1</i> gof	11.51 ± 0.31	2/34	<0.001 <sup>a</sup>
	<i>daf-16</i>	11.20 ± 0.31	3/35	<0.001 <sup>a</sup>
	<i>skn-1</i> gof; <i>daf-16</i>	11.18 ± 0.22	0/34	<0.001 <sup>a</sup> 0.671 <sup>b</sup>
<b>Fig 1G</b>	WT	13.58 ± 0.28	2/35	
<b>repeat 2</b>	<i>skn-1</i> gof	11.31 ± 0.25	0/35	<0.001 <sup>a</sup>
	<i>daf-16</i>	11.6 ± 0.35	0/35	<0.001 <sup>a</sup>
	<i>skn-1</i> gof; <i>daf-16</i>	10.91 ± 0.27	2/35	<0.001 <sup>a</sup> 0.721 <sup>c</sup>
<b>Fig 1G</b>	WT	12.91 ± 0.26	0/35	
<b>repeat 3</b>	<i>skn-1</i> gof	10.42 ± 0.33	1/35	<0.001 <sup>a</sup>
	<i>daf-16</i>	10.86 ± 0.33	0/35	<0.001 <sup>a</sup>
	<i>skn-1</i> gof; <i>daf-16</i>	10.3 ± 0.31	1/35	<0.001 <sup>a</sup> 0.704 <sup>c</sup>

<b>Fig 2A</b>	WT	7.40 ± 0.18	1/40	
<b>repeat 1</b>	<i>skn-1</i>	12.34 ± 0.32	0/41	<0.001 <sup>a</sup>
<b>Fig 2A</b>	WT	10.93 ± 0.28	0/41	
<b>repeat 2</b>	<i>skn-1</i>	12.34 ± 0.32	0/41	<0.001 <sup>a</sup>
<b>Fig 2A</b>	WT	9.95 ± 0.32	0/41	
<b>repeat 3</b>	<i>skn-1</i>	12.10 ± 0.31	2/41	<0.001 <sup>a</sup>
<b>Fig 2B</b>	WT	10.93 ± 0.28	0/41	
<b>repeat 1</b>	<i>skn-1</i>	12.34 ± 0.32	0/41	<0.001 <sup>a</sup>
	<i>daf-16</i>	9.02 ± 0.18	0/43	<0.001 <sup>a</sup>
	<i>skn-1; daf-16</i>	8.80 ± 0.31	1/41	0.958 <sup>b</sup>
<b>Fig 2B</b>	WT	10.00 ± 0.27	0/41	
<b>repeat 2</b>	<i>skn-1</i>	11.14 ± 0.31	0/42	0.004 <sup>a</sup>
	<i>daf-16</i>	9.41 ± 0.20	0/41	0.050 <sup>a</sup>
	<i>skn-1; daf-16</i>	8.88 ± 0.32	0/41	0.530 <sup>b</sup>
<b>Fig 2B</b>	WT	9.95 ± 0.32	0/41	
<b>repeat 3</b>	<i>skn-1</i>	12.10 ± 0.31	2/41	<0.001 <sup>a</sup>
	<i>daf-16</i>	9.00 ± 0.20	1/41	0.006 <sup>a</sup>
	<i>skn-1; daf-16</i>	9.40 ± 0.29	6/41	0.169 <sup>b</sup>
<b>Fig 2E</b>	<i>daf-2</i> control RNAi	21.47 ± 0.52	2/33	
<b>repeat 1</b>	<i>daf-2 skn-1</i> RNAi	23.94 ± 0.60	0/33	<0.001 <sup>a</sup>
<b>Fig 2E</b>	<i>daf-2</i> control RNAi	19.67 ± 0.65	0/33	
<b>repeat 2</b>	<i>daf-2 skn-1</i> RNAi	22.23 ± 0.64	3/33	0.006 <sup>a</sup>
<b>Fig 2E</b>	<i>daf-2</i> control RNAi	18.76 ± 0.57	0/34	
<b>repeat 3</b>	<i>daf-2 skn-1</i> RNAi	21.29 ± 0.71	2/34	0.004 <sup>a</sup>
<b>Fig 3C</b>	WT	13.92 ± 0.39	0/36	
<b>repeat 1</b>	<i>skn-1</i> gof	10.92 ± 0.36	1/37	<0.001 <sup>a</sup>
	<i>vit-2</i> OE	9.86 ± 0.26	1/36	<0.001 <sup>a</sup>
	<i>skn-1</i> gof; <i>vit-2</i> OE	10.63 ± 0.25	1/36	<0.001 <sup>a</sup>
				0.445 <sup>c</sup>
<b>Fig 3C</b>	WT	17.75 ± 0.74	0/36	
<b>repeat 2</b>	<i>skn-1</i> gof	13.48 ± 0.65	1/36	<0.001 <sup>a</sup>
	<i>vit-2</i> OE	14.83 ± 0.51	0/36	<0.001 <sup>a</sup>
	<i>skn-1</i> gof; <i>vit-2</i> OE	13.63 ± 0.47	1/36	<0.001 <sup>a</sup>
				0.555 <sup>c</sup>
<b>Fig 3C</b>	WT	12.89 ± 0.39	0/36	

<b>repeat 3</b>	<i>skn-1</i> gof	$10.66 \pm 0.36$	2/36	<0.001 <sup>a</sup>
	<i>vit-2</i> OE	$10.03 \pm 0.34$	0/39	<0.001 <sup>a</sup>
	<i>skn-1</i> gof; <i>vit-2</i> OE	$10.06 \pm 0.35$	1/36	<0.001 <sup>a</sup>
				0.784 <sup>e</sup>
<b>Fig 3E</b>	WT	$12.60 \pm 0.55$	0/35	
<b>repeat 1</b>	<i>skn-1</i> gof	$11.22 \pm 0.45$	3/35	0.039 <sup>a</sup>
	<i>vit-2</i>	$13.76 \pm 0.53$	2/36	0.169 <sup>a</sup>
	<i>skn-1</i> gof; <i>vit-2</i>	$13.46 \pm 0.57$	0/37	0.215 <sup>a</sup>
<b>Fig 3E</b>	WT	$13.26 \pm 0.54$	0/38	
<b>repeat 2</b>	<i>skn-1</i> gof	$11.68 \pm 0.44$	3/38	0.013 <sup>a</sup>
	<i>vit-2</i>	$12.78 \pm 0.52$	2/38	0.431 <sup>a</sup>
	<i>skn-1</i> gof; <i>vit-2</i>	$13.34 \pm 0.55$	6/38	0.234 <sup>a</sup>
<b>Fig 3E</b>	WT	$12.08 \pm 0.49$	0/36	
<b>repeat 3</b>	<i>skn-1</i> gof	$9.93 \pm 0.55$	2/36	0.026 <sup>a</sup>
	<i>vit-2</i>	$11.03 \pm 0.58$	1/36	0.294 <sup>a</sup>
	<i>skn-1</i> gof; <i>vit-2</i>	$11.67 \pm 0.59$	1/36	0.822 <sup>a</sup>
<b>Fig S1A</b>	WT	$9.47 \pm 0.32$	15/40	
<b>repeat 1</b>	<i>skn-1</i> gof	$24.60 \pm 0.41$	0/40	<0.001 <sup>a</sup>
<b>Fig S1A</b>	WT	$8.67 \pm 0.50$	0/36	
<b>repeat 2</b>	<i>skn-1</i> gof	$29.67 \pm 1.2$	0/36	<0.001 <sup>a</sup>
<b>Fig S1A</b>	WT	$9.32 \pm 0.48$	0/38	
<b>repeat 3</b>	<i>skn-1</i> gof	$24.65 \pm 1.52$	0/37	<0.001 <sup>a</sup>
<b>Fig S1B</b>	WT	$9.34 \pm 0.21$	3/39	
<b>repeat 1</b>	<i>skn-1(lax188)</i>	$8.21 \pm 0.14$	0/39	<0.001 <sup>a</sup>
<b>Fig S1B</b>	WT	$8.60 \pm 0.20$	0/40	
<b>repeat 2</b>	<i>skn-1(lax188)</i>	$7.35 \pm 0.16$	1/40	<0.001 <sup>a</sup>
<b>Fig S1B</b>	WT	$9.50 \pm 0.23$	0/40	
<b>repeat 3</b>	<i>skn-1(lax188)</i>	$8.58 \pm 0.20$	0/38	0.002 <sup>a</sup>
<b>Fig S1C</b>	WT	$18.70 \pm 1.16$	0/40	
<b>repeat 1</b>	<i>skn-1(lax188)</i>	$11.05 \pm 0.58$	0/40	<0.001 <sup>a</sup>
<b>Fig S1C</b>	WT	$16.09 \pm 1.15$	3/42	
<b>repeat 2</b>	<i>skn-1(lax188)</i>	$12.29 \pm 0.28$	1/42	0.001 <sup>a</sup>
<b>Fig S1C</b>	WT	$15.41 \pm 1.05$	0/41	
<b>repeat 3</b>	<i>skn-1(lax188)</i>	$11.65 \pm 0.45$	1/40	0.002 <sup>a</sup>
<b>Fig S1D</b>	WT control RNAi	$8.56 \pm 0.30$	0/32	

<b>repeat 1</b>	WT <i>wdr-23</i> RNAi	7.28 ± 0.19	0/36	<0.001 <sup>a</sup>
<b>Fig S1D</b>	WT control RNAi	7.92 ± 0.34	0/36	
<b>repeat 2</b>	WT <i>wdr-23</i> RNAi	6.27 ± 0.19	2/36	<0.001 <sup>a</sup>
<b>Fig S1D</b>	WT control RNAi	8.06 ± 0.38	0/35	
<b>repeat 3</b>	WT <i>wdr-23</i> RNAi	7.24 ± 0.28	0/34	0.035 <sup>a</sup>
<b>Fig S1E</b>	WT control RNAi	25.20 ± 1.02	0/40	
<b>repeat 1</b>	WT <i>wdr-23</i> RNAi	14.70 ± 0.79	0/40	<0.001 <sup>a</sup>
<b>Fig S1E</b>	WT control RNAi	13.00 ± 0.99	4/40	
<b>repeat 2</b>	WT <i>wdr-23</i> RNAi	9.20 ± 0.29	0/40	<0.001 <sup>a</sup>
<b>Fig S1E</b>	WT control RNAi	25.23 ± 0.95	0/39	
<b>repeat 3</b>	WT <i>wdr-23</i> RNAi	15.00 ± 0.82	0/40	<0.001 <sup>a</sup>
<b>Fig S3A</b>	WT control RNAi	13.24 ± 0.62	1/31	
<b>repeat 1</b>	WT <i>skn-1</i> RNAi	18.09 ± 0.68	0/32	<0.001 <sup>a</sup>
<b>Fig S3A</b>	WT control RNAi	9.00 ± 0.26	0/40	
<b>repeat 2</b>	WT <i>skn-1</i> RNAi	15.53 ± 0.55	0/40	<0.001 <sup>a</sup>
<b>Fig S3A</b>	WT control RNAi	8.98 ± 0.20	0/41	
<b>repeat 3</b>	WT <i>skn-1</i> RNAi	15.29 ± 0.31	2/41	<0.001 <sup>a</sup>
<b>Fig S3D</b>	<i>glp-1</i>	14.03 ± 0.37	0/38	
<b>repeat 1</b>	<i>glp-1; skn-1</i>	15.63 ± 0.31	4/36	0.005 <sup>d</sup>
<b>Fig S3D</b>	<i>glp-1</i>	15.33 ± 0.48	0/36	
<b>repeat 2</b>	<i>glp-1; skn-1</i>	16.57 ± 0.61	3/36	0.039 <sup>d</sup>
<b>Fig S3D</b>	<i>glp-1</i>	16.7 ± 0.57	4/38	
<b>repeat 3</b>	<i>glp-1; skn-1</i>	18.3 ± 0.47	1/39	0.04 <sup>d</sup>

<sup>a</sup> vs WT/control RNAi

<sup>b</sup> vs *daf-16*

<sup>c</sup> vs *skn-1* gof

<sup>d</sup> vs *glp-1*

<sup>e</sup> vs *vit-2* OE