

Supplementary Table S2. Lifespan data of *Caenorhabditis elegans* α -arrestin

RNAi clones

Strain/treatment	Mean lifespan ±SEM (days)	75th percentile	% change	Number of animals that died/total	p value vs. control	Figure in text
WT/control RNAi	17.4±0.4	22		172/240		Fig. 1D, 1F, S1A, S1B, S1C, S1D
WT/ <i>daf-16</i> RNAi	14.0±0.3	16	-20%	158/240	<0.0001	Fig. S1A
WT/ <i>arrd-1</i> RNAi	17.3±0.3	20	-1%	158/240	0.4068	Fig. 1D
WT/ <i>arrd-2</i> RNAi	17.5±0.3	20	+1%	171/240	0.7799	Fig. S1B
WT/ <i>arrd-3</i> RNAi	19.2±0.3	23	+10%	182/240	0.0045	Fig. 1F
WT/ <i>arrd-4</i> RNAi	18.3±0.4	23	+5%	168/240	0.0798	Fig. S1C
WT/ <i>arrd-5</i> RNAi	17.4±0.3	20	0%	163/240	0.4941	Fig. S1D
<i>daf-2(e1370)</i> /control RNAi	43.7±0.7	49	+151% (vs. WT/ctrl RNAi)	147/210	<0.0001	Fig. 1D, 1F, S1A, S1B, S1C, S1D
<i>daf-2(e1370)</i> / <i>daf-16</i> RNAi	22.5±0.4	28	-48%	211/240	<0.0001	Fig. S1A
<i>daf-2(e1370)</i> / <i>arrd-1</i> RNAi	40.8±0.9	46	-7%	124/180	0.0274	Fig. 1D
<i>daf-2(e1370)</i> / <i>arrd-2</i> RNAi	41.5±0.7	46	-5%	175/210	0.0115	Fig. S1B
<i>daf-2(e1370)</i> / <i>arrd-3</i> RNAi	43.3±0.7	49	-1%	192/240	0.9633	Fig. 1F
<i>daf-2(e1370)</i> / <i>arrd-4</i> RNAi	41.7±0.7	49	-4%	203/240	0.1107	Fig. S1C
<i>daf-2(e1370)</i> / <i>arrd-5</i> RNAi	41.1±0.6	46	-6%	194/240	0.0026	Fig. S1D
WT/control RNAi	21.7±0.4	24		181/240		Fig. S1E, S1F, S1G, S1H, S1I
WT/ <i>daf-16</i> RNAi	17.6±0.3	22	-19%	193/240	<0.0001	
WT/ <i>arrd-6</i> RNAi	20.5±0.4	24	-5%	176/240	0.2356	Fig. S1E
WT/ <i>arrd-7</i> RNAi	20.9±0.4	24	-3%	188/240	0.3993	Fig. S1F
WT/ <i>arrd-8</i> RNAi	20.5±0.4	24	-5%	182/240	0.3324	Fig. S1G
WT/ <i>arrd-9</i> RNAi	20.8±0.4	24	-4%	178/240	0.2675	Fig. S1H
WT/ <i>arrd-10</i> RNAi	20.2±0.4	24	-7%	184/240	0.072	Fig. S1I
<i>daf-2(e1370)</i> /control RNAi	44.3±0.7	51	+105% (vs. WT/ctrl RNAi)	195/240	<0.0001	Fig. S1E, S1F, S1G, S1H, S1I
<i>daf-2(e1370)</i> / <i>daf-16</i> RNAi	25.3±0.4	30	-43%	197/241	<0.0001	

<i>daf-2(e1370)/arrd-6</i> RNAi	44.3±0.7	51	0%	194/240	0.4514	Fig. S1E
<i>daf-2(e1370)/arrd-7</i> RNAi	43.1±0.7	51	-3%	209/240	0.443	Fig. S1F
<i>daf-2(e1370)/arrd-8</i> RNAi	43.3±0.7	48	-2%	199/240	0.0516	Fig. S1G
<i>daf-2(e1370)/arrd-9</i> RNAi	43.6±0.7	51	-2%	207/240	0.0729	Fig. S1H
<i>daf-2(e1370)/arrd-10</i> RNAi	46.0±0.8	55	+4%	207/240	0.0158	Fig. S1I
WT/control RNAi	19.8±0.3	24		201/240		Fig. 1C, S1K, S1L, S1M, S1O
WT/ <i>daf-16</i> RNAi	14.8±0.2	17	-25%	205/240	<0.0001	
WT/ <i>arrd-13</i> RNAi	18.7±0.3	22	-6%	186/210	0.003	Fig. S1K
WT/ <i>arrd-14</i> RNAi	19.1±0.3	22	-4%	193/240	0.0509	Fig. S1L
WT/ <i>arrd-15</i> RNAi	18.9±0.3	22	-5%	214/240	0.0831	Fig. S1M
WT/ <i>arrd-16</i> RNAi	18.0±0.3	20	-9%	209/240	0.0001	Fig. 1C
WT/ <i>arrd-18</i> RNAi	18.9±0.3	22	-5%	214/240	0.1381	Fig. S1O
<i>daf-2(e1370)/control</i> RNAi	44.9±0.9	53	+126% (vs. WT/ctrl RNAi)	172/210	<0.0001	Fig. 1C, S1K, S1L, S1M, S1O
<i>daf-2(e1370)/daf-16</i> RNAi	23.5±0.3	26	-48%	202/240	<0.0001	
<i>daf-2(e1370)/arrd-13</i> RNAi	45.7±0.9	53	+2%	152/210	0.4607	Fig. S1K
<i>daf-2(e1370)/arrd-14</i> RNAi	42.9±0.8	50	-4%	165/240	0.0433	Fig. S1L
<i>daf-2(e1370)/arrd-15</i> RNAi	45.8±0.7	51	+2%	187/240	0.8875	Fig. S1M
<i>daf-2(e1370)/arrd-16</i> RNAi	43.3±0.8	51	-4%	187/240	0.1174	Fig. 1C
<i>daf-2(e1370)/arrd-18</i> RNAi	45.1±1.0	53	0%	145/180	0.486	Fig. S1O
WT/control RNAi	18.0±0.3	21		220/240		Fig. 1E, S1Q, S1R, S1S, S1T
WT/ <i>daf-16</i> RNAi	14.9±0.2	17	-18%	206/240	<0.0001	
WT/ <i>arrd-23</i> RNAi	16.8±0.3	19	-7%	210/240	0.008	Fig. S1Q
WT/ <i>arrd-24</i> RNAi	16.1±0.2	18	-11%	212/240	<0.0001	Fig. 1E
WT/ <i>arrd-25</i> RNAi	16.9±0.3	19	-7%	202/240	0.0022	Fig. S1R
WT/ <i>arrd-26</i> RNAi	17.2±0.3	19	-5%	221/240	0.1342	Fig. S1S
WT/ <i>arrd-28</i> RNAi	17.5±0.3	21	-3%	221/240	0.2188	Fig. S1T
<i>daf-2(e1370)/control</i> RNAi	45.9±0.8	53	+155% (vs. WT/ctrl RNAi)	201/210	<0.0001	Fig. 1E, S1Q, S1R, S1S, S1T
<i>daf-2(e1370)/daf-16</i> RNAi	20.3±0.4	24	-56%	206/240	<0.0001	
<i>daf-2(e1370)/arrd-23</i> RNAi	44.2±0.7	52	-4%	228/240	0.0039	Fig. S1Q
<i>daf-2(e1370)/arrd-24</i> RNAi	43.0±0.8	50	-6%	193/211	<0.0001	Fig. 1E
<i>daf-2(e1370)/arrd-25</i> RNAi	43.7±0.6	50	-5%	211/240	<0.0001	Fig. S1R
<i>daf-2(e1370)/arrd-26</i> RNAi	44.7±0.6	52	-3%	223/241	0.0006	Fig. S1S
<i>daf-2(e1370)/arrd-28</i> RNAi	43.5±0.9	50	-5%	137/150	<0.0001	Fig. S1T

WT/control RNAi	20.3±0.4	24		184/240		Fig. S1J, S1N, S1P, S1U
WT/ <i>daf-16</i> RNAi	15.6±0.4	18	-23%	175/240	<0.0001	
WT/ <i>arrd-11</i> RNAi	20.2±0.4	25	-1%	194/240	0.7707	Fig. S1J
WT/ <i>arrd-17</i> RNAi	20.5±0.4	24	+1%	187/240	0.9914	Fig. S1N
WT/ <i>arrd-19</i> RNAi	19.6±0.4	24	-4%	183/240	0.1891	Fig. S1P
WT/ <i>ttm-2</i> RNAi	19.1±0.4	24	-6%	171/240	0.0729	Fig. S1U
<i>daf-2(e1370)</i> /control RNAi	43.0±0.7	50	+112% (vs. WT/ctrl RNAi)	190/240	<0.0001	Fig. S1J, S1N, S1P, S1U
<i>daf-2(e1370)</i> / <i>daf-16</i> RNAi	21.5±0.4	25	-50%	199/243	<0.0001	
<i>daf-2(e1370)</i> / <i>arrd-11</i> RNAi	42.2±0.7	50	-2%	175/210	0.3156	Fig. S1J
<i>daf-2(e1370)</i> / <i>arrd-17</i> RNAi	41.3±0.6	46	-4%	199/240	0.0156	Fig. S1N
<i>daf-2(e1370)</i> / <i>arrd-19</i> RNAi	41.1±0.6	46	-4%	201/240	0.0007	Fig. S1P
<i>daf-2(e1370)</i> / <i>ttm-2</i> RNAi	41.7±0.6	49	-3%	200/240	0.0041	Fig. S1U