

Table S4

Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		P
				n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
daGal4	R1.26	♀	1	120	50.0	72	117	76.4	92	118	56.0	81	0.0	0.0	
daGal4	R1.26	♀	2	116	52.9	84	119	79.6	98	118	55.0	91	0.0	0.0	
daGal4	R1.26	♀	3	116	52.9	84	119	79.6	98	118	55.0	91	0.0	0.0	
daGal4	R1.26	♂	1	120	48.8	75	107	62.1	83	120	50.6	75	0.0	-0.5	
daGal4	R1.26	♂	2	122	48.9	67	115	58.0	67	119	51.3	67	0.0	0.0	
daGal4	R1.26	♂	3	122	48.9	67	115	58.0	67	119	51.3	67	0.0	0.0	
daGal4	R3.12	♀	1	119	55.8	79	116	55.8	79	121	67.9	91	21.5	15.2	<0.0001
daGal4	R3.12	♀	2	118	52.5	73	116	61.7	88	118	71.4	94	15.8	6.8	<0.0001
daGal4	R3.12	♂	1	120	53.2	69	118	48.1	62	120	60.5	76	13.9	10.1	<0.0001
daGal4	R3.12	♂	2	120	50.1	66	121	50.0	66	118	63.1	81	26.1	23.0	<0.0001
daGal4	R5.14	♀	1	118	50.5	72	117	76.4	92	119	57.9	92	0.0	0.0	
daGal4	R5.14	♀	2	119	53.3	87	119	79.6	98	120	55.4	98	0.0	0.0	
daGal4	R5.14	♀	3	29	59.0	73	32	75.2	88	29	57.1	77	-3.2	0.0	0.7638
daGal4	R5.14	♂	1	120	36.9	57	107	62.1	83	123	48.6	68	0.0	0.0	
daGal4	R5.14	♂	2	117	42.8	56	115	58.0	67	121	51.3	67	0.0	0.0	
daGal4	R5.14	♂	3	30	38.7	55	29	73.0	88	30	50.6	60	0.0	0.0	
DJ694	R1.26	♀	1	120	50.0	72	120	71.4	85	116	63.9	85	0.0	0.5	
DJ694	R1.26	♀	2	116	52.9	84	122	81.5	98	115	64.8	92	0.0	0.0	
DJ694	R1.26	♀	3	116	52.9	84	122	81.5	98	115	64.8	92	0.0	0.0	
DJ694	R1.26	♂	1	120	48.8	75	116	62.6	68	122	54.4	71	0.0	0.0	
DJ694	R1.26	♂	2	122	48.9	67	116	62.6	67	116	56.7	67	0.0	0.0	
DJ694	R1.26	♂	3	122	48.9	67	116	62.6	67	116	56.7	67	0.0	0.0	
DJ694	R3.12	♀	1	119	55.8	79	118	64.3	84	120	83.1	97	29.4	15.5	<0.0001
DJ694	R3.12	♀	2	118	52.5	73	118	61.8	81	120	76.1	97	23.0	19.8	<0.0001
DJ694	R3.12	♂	1	120	53.2	69	118	54.4	69	119	73.9	97	35.9	40.6	<0.0001
DJ694	R3.12	♂	2	120	50.1	66	119	54.5	66	119	75.4	94	38.3	42.4	<0.0001
DJ694	R5.14	♀	1	118	50.5	72	120	71.4	85	118	65.0	92	0.0	8.2	
DJ694	R5.14	♀	2	119	53.3	87	122	81.5	98	112	64.4	95	0.0	0.0	
DJ694	R5.14	♀	3	29	59.0	73	30	76.9	93	28	77.6	88	0.9	0.0	
DJ694	R5.14	♂	1	120	36.9	57	116	62.6	68	117	49.9	68	0.0	0.0	
DJ694	R5.14	♂	2	117	42.8	56	116	62.6	67	119	53.0	67	0.0	0.0	
DJ694	R5.14	♂	3	30	38.7	55	29	58.0	60	30	47.7	60	0.0	0.0	
D42	R1.17	♀	1	28	73.2	88	30	81.2	95	30	84.6	90	4.2	0.0	0.7681
D42	R1.17	♂	1	29	59.7	76	30	78.3	91	29	64.8	74	0.0	-2.6	
D42	R1.26	♀	1	120	50.0	72	119	75.9	92	115	61.1	76	0.0	0.0	
D42	R1.26	♀	2	116	52.9	84	119	84.7	98	116	72.5	98	0.0	0.0	
D42	R1.26	♀	3	116	52.9	84	119	84.7	98	116	72.5	98	0.0	0.0	
D42	R1.26	♂	1	120	48.8	75	118	59.4	68	115	52.9	68	0.0	0.0	
D42	R1.26	♂	2	122	48.9	67	119	60.2	67	117	54.5	67	0.0	0.0	
D42	R1.26	♂	3	122	48.9	67	119	60.2	67	117	54.5	67	0.0	0.0	
D42	R3.12	♀	1	119	55.8	79	119	63.4	84	118	69.9	91	10.4	8.3	0.0003
D42	R3.12	♀	2	118	52.5	73	120	66.0	88	119	71.0	94	7.6	6.8	0.0145
D42	R3.12	♀	3	27	69.4	89	30	81.2	95	30	65.9	90	-5.0	0.0	0.0171
D42	R3.12	♂	1	120	53.2	69	120	56.0	69	118	61.8	76	10.4	10.1	<0.0001
D42	R3.12	♂	2	120	50.1	66	115	57.7	73	118	65.5	88	13.6	20.5	<0.0001
D42	R3.12	♂	3	30	70.1	88	30	78.3	91	30	62.4	83	-10.9	-5.5	0.031
D42	R5.2	♀	1	30	65.0	86	30	81.2	95	27	59.9	83	-7.9	-3.5	0.2044
D42	R5.2	♂	1	30	73.9	93	30	78.3	91	29	58.7	78	-20.6	-15.2	<0.0001
D42	R5.12e	♀	1	30	60.9	83	30	81.2	95	25	55.8	93	-8.3	0.0	0.7819
D42	R5.12e	♂	1	31	59.0	76	30	78.3	91	30	60.1	82	0.0	0.0	

Table S4

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Gal4	UAS	Sex	Rep <sup>1</sup>	UAS			Gal4			Gal4 + UAS			% Extension		<i>P</i>
				n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	n	Mean	Max <sup>2</sup>	Mean	Max <sup>2</sup>	
D42	R5.14	♀	1	118	50.5	72	119	75.9	92	114	65.4	82	0.0	0.0	
D42	R5.14	♀	2	119	53.3	87	119	84.7	98	117	64.3	91	0.0	0.0	
D42	R5.14	♀	3	29	59.0	73	32	79.0	88	29	58.9	77	-0.1	0.0	
D42	R5.14	♂	1	120	36.9	57	118	59.4	68	119	46.8	63	0.0	0.0	
D42	R5.14	♂	2	117	42.8	56	119	60.2	67	119	53.9	63	0.0	0.0	
D42	R5.14	♂	3	30	38.7	55	29	58.6	60	29	44.6	50	0.0	-8.3	

**Table S4: Longevity data and analysis of Hsp70 RNAi.** Mean: average survival in days, n: number of flies in the replicate, P: highest Log-rank test value, 1: replicate number, 2: 95% mortality (maximum lifespan)