

Supplemental experimental procedures

Dauer, lifespan and oxidative stress assays

For dauer assays, L4s were transferred to ethanol or 1 mM auxin plates and allowed to mature into egg-laying adults, then removed after twenty-four hours. Progeny were assessed after forty-eight hours at 25°C for the presence of dauer larvae.

For lifespan assays, cohorts were handled as described in “aging cohorts”. Lifespans were conducted at 20°C and were assessed every 2–3 days as described previously (Masse et al., 2008). Briefly, animals were scored as dead when they stopped moving and responding to prodding, they were censored when they crawled off the plate, had a “protruding vulva” or an “exploded vulva”. For oxidative stress survival assays, animals were transferred to 1 mM auxin plates at the L4 stage. After seven hours, young adult animals were transferred to 1 mM auxin plates supplemented with 20 mM paraquat (Methyl viologen dichloride hydrate, Sigma-Aldrich). Animals were scored as in lifespan assays but twice a day. All lifespan tests were blinded to avoid bias in the evaluation.

Alleles generation by CRISPR/Cas9 genome engineering

To generate the *kr462* allele, a flexible linker, the AID sequence (Zhang et al., 2015), another flexible linker and mNeonGreen were inserted tandemly into the *daf-2* locus, just before the stop codon. This sequence was PCR amplified with or without homology arms from pCR12 and the PCR products were used to generate the repair template (Dokshin et al., 2018). To generate the *kr535* allele, a flexible linker, the wrmScarlet, another flexible linker and 3 MYC tags were inserted tandemly into the *daf-16* locus, just before the stop codon. This sequence was PCR amplified with or without homology arms and the PCR products were used to generate the repair template (Dokshin et al., 2018). CrRNA were designed on *Benchling.com* and synthesized by IDT (Integrated DNA Technologies). For *kr462* TGAAAATGAGCATCTAATCG and ttttgggggtTCAGACAAG crRNA were used in tandem, for *kr535* CATGAGCTGAGTCAAGCTGG and tctcttcgaacaacaccag were used in tandem. The injection mix contained annealed double-stranded DNA donor cocktail as repair template at 200 ng/µL, Cas9 nuclease at 0.25 µg/µL (Integrated DNA Technologies), tracrRNA-crRNA duplex at 9 µM, pRF4 [*Peft-3::rol-6*] co-injection marker at 2.5 ng/µL, and RNase/DNase-free water qsp 20 µL. The candidate F1 animals were isolated by tracking the initial fluorescence knock-in in plates with F1 roller progeny. The F2 progenies were then isolated and homozygosed. The insertion was then confirmed by PCR and sequencing. Candidates were then outcrossed once with N2 before further crosses to generate the desired strains (See Table S1).

RNAi

Bacterial feeding RNAi experiments were carried out essentially as described previously (Massee et al., 2008). Briefly, single colonies of bacteria containing plasmids of interest were first grown overnight in LB with 100 mg/mL ampicillin and 12.5 mg/mL tetracycline and then for about 5 h in LB with 100 mg/mL ampicillin until OD₆₀₀ reached 0.6 to 0.8. RNAi bacterial cultures were concentrated 6 times in order to increase their efficacy. Bacteria were seeded onto NGM plates containing 2 mM IPTG, 25 mg/mL carbenicillin and 1mM auxin. Worms were maintained on OP50 plates and transferred on RNAi plates at the L4 stage. The control (HT115) and D1081.2 (*unc-120*) clones were purchased from GeneService. Each clone has been sequenced to confirm its identity. In all RNAi experiments *rrf-3(pk1426)* mutant worms were used in order to increase RNAi sensitivity (Simmer et al., 2003).

Supplementary references

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Table S1: Strains

Strains	Genotypes	Promotor driving TIR1 expression	Tissues with DAF-2 degradation	Source of TIR1 alleles	Used in figure(s)
EN7563	<i>kr462[daf-2::linker::AID::linker::mNeonGreen] III; krSi50[Peft-3::TIR1::tagBFP::unc-54 3' UTR] IV</i>	<i>eft-3</i>	Ubiquitous 1	Zhou et al., 2021	1 (c, d, e); 2; 3; 4 (a, c); S1 (a); S2; S3
EN7863	<i>kr462 III; krSi45[Peft-3::TIR1::tagBFP::unc-54 3' UTR] V</i>	<i>eft-3</i>	Ubiquitous 2	This work	1 (c); 3; 4 (a, c); S2
EN7565	<i>kr462 III; krSi55[Pmyo-3::TIR1::tagBFP::unc-54 3' UTR] V</i>	<i>myo-3</i>	Muscle 1	Zhou et al., 2021	3; 4 (a, c); S1 (g); S2; S3; S4
EN7864	<i>krSi81[Pmyo-3::TIR1::tagBFP::unc-54 3' UTR] I; kr462 III</i>	<i>myo-3</i>	Muscle 2	This work	3; 4 (a, c); S2
EN7567	<i>kr462 III; krSi36[Prab-3::TIR1::tagBFP::unc-54 3' UTR] V</i>	<i>rab-3</i>	Neuron 1	Zhou et al., 2021	3; 4 (a, c); S1 (b); S2; S4
EN7865	<i>kr462 III; krSi140[Prab-3::TIR1::tagBFP::unc-54 3' UTR] IV</i>	<i>rab-3</i>	Neuron 2	This work	3; 4; S2; S3; S4
EN7691	<i>ieSi61[Pges-1::TIR1::mRuby + Cbr-unc-119(+)] II; kr462 III</i>	<i>ges-1</i>	Intestine 1	Zhang et al., 2015	3; 4 (a, c); S1 (h); S2
EN8173	<i>reSi5[Pges-1::TIR1::F2A::mTagBFP2::NLS::AID::tbb-2 3'UTR] I; kr462 III</i>	<i>ges-1</i>	Intestine 2	Guinevere Ashley et al. 2021	3; 4 (a, c); S2
EN7569	<i>krSi63[Pdpy-7::TIR1::tagBFP::unc-54 3' UTR] I; kr462 III</i>	<i>dpy-7</i>	Epidermis 1	Zhou et al., 2021	3; S1 (f); S2
EN8032	<i>kr462 III, krSi53[Pdpy-7::TIR1::tagBFP::unc-54 3' UTR] III</i>	<i>dpy-7</i>	Epidermis 2	This work	3; S2
EN7861	<i>kr462 III; ieSi38[Psun-1::TIR1::mRuby:sun-1 3'UTR + Cbr-unc-119(+)] IV</i>	<i>sun-1</i>	Germline 1	Zhang et al., 2015	3; S1 (e); S2
EN7862	<i>ieSi68[Psun-1::TIR1::mRuby::htp-1 3'UTR + Cbr-unc-119(+)] II; kr462 III</i>	<i>sun-1</i>	Germline 2	Zhang et al., 2015	3; S2
EN7964	<i>ieSi61[Pges-1::TIR1::mRuby + Cbr-unc-119(+)] II; kr462 III; krSi36[Prab-3::TIR1::tagBFP] V</i>	<i>ges-1 + rab-3</i>	Intestine 1 + Neuron 1	Zhang et al., 2015; Zhou et al., 2021	3; S2
EN7737	<i>kr462 III; krSi36[Prab-3::TIR1::tagBFP::unc-54 3' UTR] V; krSi55[Pmyo-3::TIR1::tagBFP::unc-54 3' UTR] V</i>	<i>rab-3 + myo-3</i>	Neuron 1 + Muscle 1	Zhou et al., 2021	4 (a, c)
EN8492	<i>kr462 III; krSi52[Punc-17::TIR1::BFP::unc-54 3' UTR]</i>	<i>unc-17</i>	Cholinergic neuron	This work	4 (b)
EN8634	<i>kr462 III; krSi232[Punc-17::TIR1::BFP::unc-54 3' UTR]</i>	<i>unc-17</i>	Cholinergic neuron	This work	4 (b)
EN8635	<i>kr462 III; krSi233[Punc-17::TIR1::BFP::unc-54 3' UTR]</i>	<i>unc-17</i>	Cholinergic neuron	This work	4 (b)
EN8636	<i>kr462 III; krSi234[Punc-17::TIR1::BFP::unc-54 3' UTR]</i>	<i>unc-17</i>	Cholinergic neuron	This work	4 (b)
EN8491	<i>kr462 III; krSi51[Punc-47::TIR1::BFP::unc-54 3' UTR] IV</i>	<i>unc-47</i>	GABAergic neuron	This work	4 (b)
EN8637	<i>kr462 III; krSi235[Punc-47::TIR1::BFP::unc-54 3' UTR] IV</i>	<i>unc-47</i>	GABAergic neuron	This work	4 (b)
EN8638	<i>kr462 III; krSi235[Punc-47::TIR1::BFP::unc-54 3' UTR] IV</i>	<i>unc-47</i>	GABAergic neuron	This work	4 (b)
EN8113	<i>kr535[daf-16::linker::wScarlet::linker::3xMYC] I; kr462 III; krSi50[Peft-3::TIR1::tagBFP::unc-54 3' UTR] IV</i>	<i>eft-3</i>	Ubiquitous 1	Zhou et al., 2021	5
EN8169	<i>kr535[daf-16::linker::wScarlet::linker::3xMYC] I; kr462 III; krSi140[Prab-3::TIR1::tagBFP::unc-54 3' UTR] IV</i>	<i>rab-3</i>	Neuron 2	This work	5
EN8170	<i>kr535[daf-16::linker::wScarlet::linker::3xMYC] I; kr462 III; krSi55[Pmyo-3::TIR1::tagBFP::unc-54 3' UTR] V</i>	<i>myo-3</i>	Muscle 1	Zhou et al., 2021	5
EN8536	<i>kr535[daf-16::linker::wScarlet::linker::3xMYC] I; ieSi61[Pges-1::TIR1::mRuby + Cbr-unc-119(+)] II; kr462 III</i>	<i>ges-1</i>	Intestine 1	Zhang et al., 2015	5
EN8621	<i>ot853[daf-16::linker::mNeonGreen::3xFlag::AID] I; kr462 III; krSi140[Prab-3::TIR1::tagBFP::unc-54 3' UTR] IV</i>	<i>rab-3</i>	Neuron 2	This work	6 (a)
EN8620	<i>ot853[daf-16::linker::mNeonGreen::3xFlag::AID] I; kr462 III; krSi55[Pmyo-3::TIR1::tagBFP::unc-54 3' UTR] V</i>	<i>myo-3</i>	Muscle 1	Zhou et al., 2021	6 (b)
EN8625	<i>rrf-3(pk1426)II; kr462 III; krSi55[Pmyo-3::TIR1::tagBFP::unc-54 3' UTR] V</i>	<i>myo-3</i>	Muscle 1	Zhou et al., 2021	6 (c)
EN7878	<i>krSi134[Pmyo-3::tomm-20N::wScarlet::unc-54 3' UTR] I; kr462 III; krSi50[Peft-3::TIR1::tagBFP::unc-54 3' UTR] IV</i>	<i>eft-3</i>	Ubiquitous 1	Zhou et al., 2021	S4
EN8315	<i>krSi134[Pmyo-3::tomm-20N::wScarlet::unc-54 3' UTR] I; kr462 III; krSi55[Pmyo-3::TIR1::tagBFP::unc-54 3' UTR] V</i>	<i>myo-3</i>	Muscle 1	Zhou et al., 2021	S4
EN8316	<i>krSi134[Pmyo-3::tomm-20N::wScarlet::unc-54 3' UTR] I; kr462 III; krSi140[Prab-3::TIR1::tagBFP::unc-54 3' UTR] IV</i>	<i>rab-3</i>	Neuron 2	This work	S4
EN8489	<i>krSi134[Pmyo-3::tomm-20N::wScarlet::unc-54 3' UTR] I; kr462 III; krSi36[Prab-3::TIR1::tagBFP::unc-54 3' UTR] V</i>	<i>rab-3</i>	Neuron 1	Zhou et al., 2021	S4
EN8490	<i>krSi134[Pmyo-3::tomm-20N::wScarlet::unc-54 3' UTR] I; kr462 III; krSi36[Prab-3::TIR1::tagBFP::unc-54 3' UTR] V, krSi55[Pmyo-3::TIR1::tagBFP::unc-54 3' UTR] V</i>	<i>rab-3 + myo-3</i>	Neuron 1 + Muscle 1	Zhou et al., 2021	S4

Other strains used in this study

Strains	Genotypes	Source	Used in figure(s)
N2	<i>wt</i>	CGC	1; 3; S1 (a); S2
FS428	<i>dof-2(e1370) III (CB1370 outcrossed 6x)</i>	Mergoud et al., 2018	1 (c, d, e); S2; S3
EN462	<i>kr462[daf-2::linker::AID::linker::mNeonGreen] III</i>	This work	1; 3; 4; S1 (a); S2; S3
EN50535	<i>kr535[daf-16::linker::wScarlet::linker::3xMYC] I</i>	This work	5
OH14125	<i>ot853[daf-16::linker::mNeonGreen::3xFlag::AID] I</i>	Bhattacharya et al., 2019	
EN8618	<i>ot853[daf-16::linker::mNeonGreen::3xFlag::AID] I; kr462 III</i>	This work	6 (a, b)
NL2099	<i>rrf-3(pk1426)II</i>	Sijen et al., 2001	
EN8642	<i>rrf-3(pk1426)II; kr462 III</i>	This work	6 (c)
EN8313	<i>krSi134[Pmyo-3::tomm-20N::wScarlet::unc-54 3' UTR] I; kr462 III</i>	This work	S4

Summary of lifespan replicates per strain and results

Tissue	Allele	Number of replicates	Number of times with significant difference compared to the control	Change compared to the control's mean lifespan if significant (%)	Change compared to the control's median lifespan if significant (%)	Experiment number			
Ubiquitous	Ubiquitous 1 (<i>krSi50</i>)	5	5	101.73	117.39	3			
				80.77	116.67	4			
				75.68	68.00	7			
				81.97	113.04	8			
				91.00	118.18	9			
	Ubiquitous 2 (<i>krSi45</i>)	4	4	43.04	87.50	5			
				23.63	56.00	6			
				102.70	112.00	7			
				90.52	136.36	9			
				73.93	70.83	4			
Intestine	Intestine 1 (<i>ieSi61</i>)	4	4	32.07	40.00	6			
				59.46	40.00	7			
				43.35	52.17	8			
	Intestine 2 (<i>reSi5</i>)	1	1	59.66	82.61	8			
	Neuron 1 (<i>krSi36</i>)	3	3	38.03	41.67	4			
Intestine + Neuron				22.52	0.00	7			
				44.21	60.87	8			
Neuron 2 (<i>krSi140</i>)	2	2	39.13	75.00	5				
			41.44	28.00	7				
Intestine 1 (<i>ieSi61</i>) + Neuron 1 (<i>krSi36</i>)	2	2	49.55	40.00	7				
			50.64	60.87	8				
Muscle	Muscle 1 (<i>krSi55</i>)	2	1	-11.54	-12.50	4			
				ns	ns	10			
	Muscle 2 (<i>krSi81</i>)	2	0	ns	ns	5			
				ns	ns	10			
Germline	Germline 1 (<i>ieSi38</i>)	2	1	ns	ns	6			
				14.35	12.50	10			
	Germline 2 (<i>ieSi68</i>)	2	0	ns	ns	5			
				ns	ns	10			
Epidermis	Epidermis 1 (<i>krSi63</i>)	3	1	-11.11	-12.50	4			
				ns	ns	10			
				ns	ns	11			
	Epidermis 2 (<i>krSi53</i>)	2	2	10.73	8.70	8			
				12.17	12.50	10			

Summary of lifespan replicates in presence of paraquat per strain and results

Tissue	Allele	Number of replicates	Number of times with significant difference compared to the control	Change compared to the control's mean lifespan if significant (%)	Change compared to the control's median lifespan if significant (%)	Experiment number
Ubiquitous	Ubiquitous 1 (<i>krSi50</i>)	4	4	50.00	80.77	12
				50.00	61.54	13
				57.14	66.67	14
				55.56	55.56	15
	Ubiquitous 2 (<i>krSi45</i>)	2	2	50.00	130.77	12
				61.54	115.38	13
Intestine	Intestine 1 (<i>ieSi61</i>)	4	4	34.62	38.46	12
				34.62	38.46	13
				32.14	16.67	14
				33.33	40.74	15
	Intestine 2 (<i>reSi5</i>)	2	2	23.08	15.38	12
				29.63	40.74	15
Neuron	Neuron 1 (<i>krSi36</i>)	3	3	-15.38	-23.08	13
				-17.86	-16.67	14
				-7.41	0.00	15
	Neuron 2 (<i>krSi140</i>)	3	3	11.54	0.00	13
				14.29	0.00	14
				25.93	18.52	15
Intestine + Neuron	Intestine 1 (<i>ieSi61</i>) + Neuron 1 (<i>krSi36</i>)	2	2	10.71	0.00	14
				18.52	18.52	15
Muscle	Muscle 1 (<i>krSi55</i>)	2	1	ns	ns	13
	Muscle 2 (<i>krSi81</i>)	1	0	ns	ns	13

Table S3: dauer percentage

TIR1 strain (see Table S1)	Percentage of dauer (n; N)	
	+ EtOH	+ Auxin
Ubiquitous 1	0 (1640; 5)	100 (605; 5)
Ubiquitous 2	0 (112; 3)	100 (68; 3)
Neuron 1	0 (761; 3)	0 (546; 3)
Neuron 2	0 (164; 3)	0 (157; 3)
Muscle 1	0 (626; 3)	0 (633; 3)
Intestine 1	0 (1153; 4)	0 (984; 4)
Epidermis 1	0 (670; 2)	0 (421; 2)
Germline 2	0 (189; 3)	0 (143; 3)
Neuron 1 + Muscle 1	0 (427; 2)	0 (366; 2)
Neuron 1 + Intestine 1	0 (201; 3)	0 (170; 3)

Table S4: DAF-16 nuclear translocation

DAF-2 degradation		Percentage of worms with strong DAF-16::wrmsCARLET nuclear signal (n)		
		Intestine	Neurons	Muscles
	Control	0 (22)	0 (25)	0 (22)
	Ubiquitous	100 (31)	100 (28)	100 (32)
	Intestine	100 (21)	0 (21)	100 (22)
	Neuron	0 (25)	100 (28)	0 (25)
	Muscle	0 (25)	0 (25)	100 (25)

Table S5**List of generated plasmids**

Plasmid	Description	Usage
pCR12	<i>last 280 bp of daf-2::flexible linker::AID::flexible linker::mNeonGreen::daf-2 3'UTR first 347 bp</i>	Repair template to create EN462 CRISPR knock-in strain
pCV06	<i>Punc-17::TIR1-TagBFP::unc-54 3'UTR</i>	Minimal Mos 1 vector for <i>Punc-17::TIR1-TagBFP</i> insertion; used to create <i>krSi52</i> allele; contains a neomycin-resistant cassette
pCV07	<i>Punc-47::TIR1-TagBFP::unc-54 3'UTR</i>	Minimal Mos 1 vector for <i>Punc-47::TIR1-TagBFP</i> insertion; used to create <i>krSi51</i> allele; contains a neomycin-resistant cassette
pBB16	<i>Pmyo-3::tomm-20N::wScarlet::unc-54 3'UTR</i>	Minimal Mos 1 vector for <i>Pmyo-3::tomm-20N::wSCARLET</i> insertion; used to create <i>krSi134</i> allele; contains a neomycin-resistant cassette

List of generated miniMos single-copy insertion alleles

Allele name	Construct	Plasmid used
<i>krSi45</i>	<i>Peft-3::TIR1::tagBFP::unc-54 3'UTR V</i>	pCV09 (Zhou et al., 2021)
<i>krSi81</i>	<i>Pmyo-3::TIR1::tagBFP::unc-54 3'UTR I</i>	pCV04 (Zhou et al., 2021)
<i>krSi140</i>	<i>Prab-3::TIR1::tagBFP::unc-54 3'UTR IV</i>	pCV05 (Zhou et al., 2021)
<i>krSi53</i>	<i>Pdpy-7::TIR1::tagBFP::unc-54 3'UTR III</i>	pCV08 (Zhou et al., 2021)
<i>krSi52</i>	<i>Punc-17::TIR1::BFP::unc-54 3'UTR</i>	pCV06 (this work)
<i>krSi232</i>	<i>Punc-17::TIR1::BFP::unc-54 3'UTR</i>	pCV06 (this work)
<i>krSi233</i>	<i>Punc-17::TIR1::BFP::unc-54 3'UTR</i>	pCV06 (this work)
<i>krSi234</i>	<i>Punc-17::TIR1::BFP::unc-54 3'UTR</i>	pCV06 (this work)
<i>krSi51</i>	<i>Punc-47::TIR1::BFP::unc-54 3'UTR IV</i>	pCV07 (this work)
<i>krSi235</i>	<i>Punc-47::TIR1::BFP::unc-54 3'UTR</i>	pCV07 (this work)
<i>krSi236</i>	<i>Punc-47::TIR1::BFP::unc-54 3'UTR</i>	pCV07 (this work)
<i>krSi134</i>	<i>Pmyo-3::tomm-20N::wScarlet::unc-54 3'UTR I</i>	pBB16 (this work)