

Strain	Genotype	Trial	Mean lifespan ± SEM (Days)	% Difference	N (total)	p
	N2	1	11.1 ± 0.17		127 (127)	<0.0001 ^a
GA1071	<i>aakg-4(tm5539)</i>	1	11.2 ± 0.14		110 (123)	<0.0001 ^a NS ^b
DR1567	<i>daf-2(m577)</i>	1	29.5 ± 0.59		115 (116)	-
GA1072	<i>daf-2(m577);aakg-4(tm5539)</i>	1	23.9 ± 0.48	-23.06	123 (123)	<0.0001 ^a
GA1001	<i>aak-2(ok524)</i>	1	9.7 ± 0.12		125 (125)	<0.0001 ^c
	N2	2	11.8 ± 0.18		121 (125)	<0.0001 ^a
GA1071	<i>aakg-4(tm5539)</i>	2	12.4 ± 0.23		102 (123)	<0.0001 ^a 0.0266 ^b
DR1567	<i>daf-2(m577)</i>	2	28.9 ± 0.45		95 (97)	-
GA1072	<i>daf-2(m577);aakg-4(tm5539)</i>	2	24.0 ± 0.41	-20.33	106 (110)	<0.0001 ^a
GA1001	<i>aak-2(ok524)</i>	2	9.3 ± 0.14		121 (121)	<0.0001 ^c
	N2	3	11.7 ± 0.13		118 (120)	<0.0001 ^a
DR1567	<i>daf-2(m577)</i>	3	29.9 ± 0.50		110 (110)	-
GA1072	<i>daf-2(m577);aakg-4(tm5539)</i>	3	23.7 ± 0.36	-26.33	187 (187)	<0.0001 ^a
	N2	4	11.3 ± 0.17		127 (127)	<0.0001 ^a
DR1567	<i>daf-2(m577)</i>	4	29.0 ± 0.69		121 (124)	-
GA1072	<i>daf-2(m577);aakg-4(tm5539)</i>	4	22.7 ± 0.36	-27.85	241 (241)	<0.0001 ^a

Table S7. *aakg-4(tm5539)* shortens *daf-2* lifespan.