

Table S2: Effect of *tcer-1* overexpression on the lifespan of wild-type worms and long-lived mutants.

Table S2. A: Effect of <i>tcer-1</i> overexpression on lifespan of wild-type worms					
Genotype	Trial	Mean LS ± SEM (days)	Events/ Obs^a	% Effect on control	P vs. control
CF2144* [@] (<i>Podr-1::RFP</i>) <i>muEx321</i> Co-injection marker (wild type) control	1	17.4 ± 0.4	81/89		
CF2032* (<i>Ptcer-1::tcer-1::GFP, Podr-1::RFP</i>) <i>muEx307</i>		21.2 ± 0.4	85/90	+21.8	<0.0001
CF2033 (<i>Ptcer-1::tcer-1::GFP, Podr-1::RFP</i>) <i>muEx308</i>		19.9 ± 0.5	89/100	+14.3	0.001
CF2148 (<i>Ptcer-1::tcer-1::GFP, Podr-1::RFP</i>) <i>muEx325</i>		20.5 ± 0.5	71/78	+17.8	<0.0001
CF2149* (<i>Ptcer-1::tcer-1::GFP, Podr-1::RFP</i>) <i>muEx326</i>		21.6 ± 0.6	74/79	+24.1	0.0002
CF2150 (<i>Ptcer-1::tcer-1::GFP, Podr-1::RFP</i>) <i>muEx327</i>		20.9 ± 0.5	69/87	+20.1	<0.0001
CF2151 (<i>Ptcer-1::tcer-1::GFP, Podr-1::RFP</i>) <i>muEx328</i>		20.3 ± 0.5	82/92	+16.6	<0.0001
CF2144 (Wild-type Control)	2	16.5 ± 0.5	82/87		
CF2148		20.5 ± 0.7	64/67	+24.2	<0.0001
CF2149		18.3 ± 0.8	71/83	+10.9	0.03
CF2150		18.1 ± 0.6	60/66	+9.6	0.05
CF2151		17.7 ± 0.6	56/64	+7.2	0.17
N2 (Wild-type control)	3	16.9 ± 0.5	56/68		
CF2031 (<i>Ptcer-1::tcer-1::GFP, Podr-1::RFP</i>) <i>muEx306</i>		18.8 ± 0.6	84/95	+11.2	0.01
CF2032		19.4 ± 0.5	84/95	+14.7	0.001
CF2033		19.4 ± 0.6	99/110	+14.7	0.001
CF2034 (<i>Ptcer-1::tcer-1::GFP, Podr-1::RFP</i>) <i>muEx309</i>		17.5 ± 0.6	99/110	+3.5	0.32

Table S2. B: Effect of <i>tcer-1</i> overexpression on lifespan of <i>tcer-1(tm1452)</i> mutants						
Genotype	Trial	Mean LS \pm SEM (days)	Events/Obs ^a	% effect on control	P vs N2	P vs CF2032
N2	1	18.6 \pm 0.4	60/96			
CF2166 <i>tcer-1(-)</i> Line #8		19.1 \pm 0.6	50/64	+2.6	0.28	
CF2167 <i>tcer-1(-)</i> Line #9		19.8 \pm 0.6	68/81	+6.4	0.08	
CF2032 (<i>Ptcer-1::tcer-1::GFP, Podr-1::RFP</i>)		21.5 \pm 0.7	76/111	+15.5	0.0001	
CF2857 <i>tcer-1(-); Ptcer-1::tcer-1::GFP, Podr-1::RFP</i> Line #16		23.8 \pm 0.6	96/103	+27.9	<0.0001	0.04
CF2858 <i>tcer-1(-); Ptcer-1::tcer-1::GFP, Podr-1::RFP</i> Line #18		21.5 \pm 0.6	82/93	+15.5	0.0004	0.9
N2	2	18.5 \pm 0.5	94/116			
CF2166** <i>tcer-1(-)</i> Line #8		18.6 \pm 0.4	91/108	ne	0.63	
CF2167 <i>tcer-1(-)</i> Line #9		19.4 \pm 0.6	91/105	+4.8	0.1	
CF2032 (<i>Ptcer-1::tcer-1::GFP, Podr-1::RFP</i>)		21.2 \pm 0.5	78/112	+14.5	0.0004	
CF2857** <i>tcer-1(-); Ptcer-1::tcer-1::GFP, Podr-1::RFP</i> Line #16		24.6 \pm 0.8	81/106	+32.9	<0.0001	0.0009
CF2858 <i>tcer-1(-); Ptcer-1::tcer-1::GFP, Podr-1::RFP</i> Line #18		23.2 \pm 0.8	95/114	+25.4	<0.0001	0.02

Table S2. C: Effect of <i>tcer-1</i> overexpression on lifespan of long-lived mutants				
Genotype	Mean LS ± SEM (days)	Events/ Obs^a	P vs. Z2, Z3-ablated or <i>glp-1</i> control	P vs. Intact gonad control
CF2032 [#] <i>tcer-1 OE</i> Intact Gonad Control	18.3 ± 0.4	98/115		
CF2032 [#] <i>tcer-1 OE, Non transgenic siblings</i> Intact Gonad Control	15.0 ± 0.3	89/107		<0.0001 (vs CF2032 Intact Gonad)
CF2032 [#] <i>tcer-1 OE</i> Z2, Z3 ablated	30.9 ± 2.0	29/33		
CF2032 [#] <i>tcer-1 OE, Non transgenic siblings Z2, Z3 ablated</i>	28.2 ± 0.7	20/25	0.96 (vs CF2032 Z2, Z3 Ablated)	
CF2032 <i>tcer-1 OE</i> Intact Gonad Control	16.7 ± 0.5	39/46		
CF2032 <i>tcer-1 OE, Non transgenic siblings</i> Intact Gonad Control	15.3 ± 0.4	55/66		0.03 (vs CF2032 Intact gonad)
CF2032 <i>tcer-1 OE</i> Z2, Z3 ablated	30.6 ± 1.2	92/106		
CF2032 <i>tcer-1 OE, Non transgenic siblings</i> Z2, Z3 ablated	29.7 ± 1.6	107/120	0.76 (vs CF2032 Z2, Z3 ablated)	
<i>glp-1(-)</i> Control	31.3 ± 0.7	102/103		
CF2175 <i>glp-1(-); tcer-1 OE muEx307</i> Line # 32-10	33.2 ± 1.1	82/91	0.002	
CF2177 <i>glp-1(-); tcer-1 OE muEx307</i> Line # 32-40	30.7 ± 1.1	88/90	0.11	
CF2178 <i>glp-1(-); tcer-1 OE muEx308</i> Line # 33-16	31.6 ± 1.0	87/90	0.13	
CF2179 <i>glp-1(-); tcer-1 OE muEx308</i> Line # 33-10	31.7 ± 1.1	84/91	0.08	
CF2180 <i>glp-1(-); tcer-1 OE muEx308</i>	31.5 ± 0.9	81/84	0.36	

<i>Line # 33-17</i>				
<i>glp-1(-)</i> Control ^{***}	30.6 ± 0.2	102/104		
CF2178	31.8 ± 0.5	88/91	0.1	
CF2178 Non-transgenic control siblings	30.8 ± 0.4	97/98	0.3	0.89 (vs. CF2178)
CF2179 ^{***}	30.4 ± 0.3	82/89	0.3	
CF2179 ^{***} Non-transgenic control siblings	30.6 ± 0.2	86/89	0.4	0.2 (vs. CF2179)
<i>daf-2(e1370)</i>	52.4 ± 1.5	95/116		
<i>daf-2(e1370); tcer-1 OE Line#10</i>	55.8 ± 1.6	77/120	0.01	
<i>daf-2(e1370); tcer-1 OE Line#10</i> ^{\$} Non-transgenic control siblings	51.2 ± 1.5	63/87		
<i>daf-2(e1370); tcer-1 OE Line#10</i> ^{\$}	57.6 ± 1.4	74/90	0.01	
<i>eat-2(ad1116)</i> ^{\$\$}	24.5 ± 0.4	34/102		
<i>eat-2(ad1116); tcer-1 OE</i> ^{\$\$} Line #1	30.1 ± 0.9	30/60	0.001	
<i>eat-2(ad1116); tcer-1</i> ^{\$\$} OE Line #2	30.9 ± 0.9	64/129	<0.0001	

LS: Lifespan; SEM: Standard error of the mean

^a Some animals were censored as described in Materials and Methods.

@ The co-injection marker *Podr-1::RFP* did not have any effect on lifespan (CF2144 vs. N2 P = 0.24)

ne: no effect

*, **, ***: Experiments depicted in Figure 3D- F, respectively.

: Experiments depicted in Figure S2.

\$. \$\$: Experiments depicted in Figure 6E and Figure S5. B, respectively.