

**Table 4. *daf-9* is resistant to oxidative stress induced by hydrogen peroxide**

Exp/concentration H <sub>2</sub> O <sub>2</sub> , mM	Genotype	Ligand ( $\Delta^4$ ) or <i>daf-9</i> (+) expression	Lifespan, hours		No. of animals	P value	Figure
			Mean	Maximum			
1/4.4	N2 (wild type)	-	3.1	4	25		4I and 6C
		$\Delta^4$	2.8	5	25	0.47*	4I
	<i>daf-9(dh6)**</i>	-	>21	>25	22	<0.00001*	4I and 6C
		$\Delta^4$	3.9	5	25	0.00010 <sup>†</sup> , <0.00001 <sup>‡</sup>	4I
	<i>daf-12(rh61rh411)</i>	-	3.2	5	25	0.36*	6C
		$\Delta^4$	2.7	4	24	0.71 <sup>†</sup> , 0.0596 <sup>‡</sup>	
	<i>dh6 rh61rh411</i>	-	2.8	5	25	0.48*	6C
		$\Delta^4$	3.0	5	25	0.497 <sup>†</sup> , 0.517 <sup>‡</sup>	
2/8.4	N2	-	2.6	4	15		4J
		$\Delta^4$	2.9	5	22	0.32*	4J
	<i>dh6**</i>	-	>7	>7	24	<0.00001*	4J
		$\Delta^4$	2.5	3	22	0.13 <sup>†</sup> , <0.00001 <sup>‡</sup>	
	<i>daf-2(e1370)</i>	-	3.9	6	16	0.0001*	4J
		$\Delta^4$	5.0	7	21	<0.00001 <sup>†</sup> , 0.0013 <sup>‡</sup>	4J
3/7.5	N2		2.4	5	59		6D
	<i>dh6<sup>††</sup></i>		>9	>13	29	<0.00001 <sup>§</sup> , <0.00001 <sup>¶</sup>	6D
	<i>din-1(dh127)</i>		2.5	5	60	0.88 <sup>§</sup> , 0.75 <sup>¶</sup>	6D
	<i>e1406 dh127</i>		2.1	5	60	0.85 <sup>§</sup>	6D

Exp/concentration H <sub>2</sub> O <sub>2</sub> , mM	Genotype	Ligand ( $\Delta^4$ ) or <i>daf-9(+)</i> expression	Lifespan, hours		No. of animals	P value	Figure
			Mean	Maximum			
4/5	N2		3.9	5	28		6 A and B
	<i>dh6</i> <sup>††</sup>		>8	>8	20	<0.00001 <sup>§</sup>	
	<i>e1406</i>		>7	>8	14	<0.00001 <sup>§</sup>	6 A and B
	<i>e1406 dhEx203</i>	XXX	4.5	5	30	0.001 <sup>§</sup> , <0.00001 <sup>  </sup>	6A
	<i>e1406 dhEx294</i>	hyp	4.4	5	39	0.002 <sup>§</sup> , <0.00001 <sup>  </sup>	6B
	<i>e1370</i>		5.3	7	30	<0.00001 <sup>§</sup>	6 A and B

( $\Delta^4$ ), ligand was added during larval development and adult. (-), only vehicle (100% EtOH) was added. *daf-9* cDNA was tissue specific expressed in XXX cells (XXX) or in the hypodermis (hyp). P values were determined by using the log rank test (Mantel-Cox) for individual experiments compared to strains examined at the same time. *e1406* was derived from *daf-9(e1406) dhEx203*.

\*Compared to N2 worms without ligand (-).

†Compared to N2 worms exposed to the  $\Delta^4$  ligand during larval development and adulthood.

‡Compared to the same strain without ligand (-).

§Compared to N2 worms of the same experiment.

¶Compared to the double mutant with the corresponding genotype.

||Compared to *daf-9(e1406)* without *daf-9(+)* expression constructs.

\*\**dh6* was derived from the strain *daf-9(dh6) dhEx24*.

††*dh6* was derived from *daf-9(dh6) dhEx203*.