

Table 3. Heat stress resistance

Exp.	Genotype	Ligand (Δ^4) or <i>daf-9(+)</i> expression	Lifespan, hours		No. of animals	P value	Figure
			Mean	Maximum			
1	N2 (wild type)	-	8.2	10	47		4 A and B
		Δ^4	8.4	10	18	0.54*	4 A and B
	<i>daf-9(dh6)**</i>	-	13	19	42	<0.00001*	4A
		Δ^4	7.8	9	40	0.016 [†] , <0.00001 [‡]	4A
	<i>daf-9(e1406)</i>	-	11	20	40	<0.00001*	4B
		Δ^4	7.9	10	40	0.046 [†] , <0.00001 [‡]	4B
2	N2	-	10.3	15	44		4C
		Δ^4	9.3	13	34	0.020*	4C
	<i>dh6**</i>	-	18.0	23	21	<0.00001*	
		Δ^4	6.5	8	24	<0.00001 [†] , <0.00001 [‡]	
	<i>daf-2(e1370)</i>	-	19.5	23	33	<0.00001*	4C
		Δ^4	19.4	22	29	<0.00001 [†] , 0.75 [‡]	4C
3	N2		8.2	10	49		4 D and F
	<i>e1406</i>		16.7	28	40	<0.00001 [§] , <0.00001 [¶]	4 D and F
	<i>e1406 dhEx203</i>	XXX	8.7	12	50	0.030 [§] , <0.00001 [¶]	4D
	<i>e1406 dhEx294</i>	hyp	9.0	12	50	0.0040 [§] , <0.00001 [¶]	4D
	<i>din-1(dh127)</i>		7.1	10	47	0.00013 [§] , <0.00001 [¶]	4F
	<i>e1406 dh127</i>		8.4	10	50	0.39 [§]	4F

Exp.	Genotype	Ligand (Δ^4) or <i>daf-9(+)</i> expression	Lifespan, hours		No. of animals	P value	Figure
			Mean	Maximum			
4	N2	-	5.8	8	48		4E
		Δ^4	5.7	8	46	0.62*	
	<i>dh6**</i>	-	8.8	12	41	<0.00001*	4E
		Δ^4	5.2	6	50	0.0020 [†] , <0.00001 [‡]	
	<i>daf-12(rh61rh411)</i>	-	5.9	8	47	0.79*	4E
		Δ^4	5.8	8	48	0.66 [†] , 0.83 [‡]	
	<i>dh6 rh61rh411</i>	-	5.9	8	49	0.82*	4E
		Δ^4	5.6	8	51	0.74 [†] , 0.23 [‡]	
5	N2		7.9	10	50		4G
	<i>dh6^{††}</i>		15.3	22	49	<0.00001 [§] , <0.00001 [¶]	4G
	<i>daf-16(mgDf50)</i>		8.0	10	46	0.18 [§] , 0.000079 [¶]	4G
	<i>dh6 mgDf50</i>		9.6	16	50	<0.00001 [§]	4G
6	N2		10.6	14	41		4H
	<i>dh6^{††}</i>		17.1	22	41	<0.00001 [§]	
	<i>mgDf50</i>		10.1	14	50	0.35 [§] , <0.00001 [¶]	4H
	<i>e1370</i>		17.0	20	48	<0.00001 [§] , <0.00001 [¶]	4H
	<i>e1370 daf-16(mg47)</i>		12.6	18	46	0.000069 [§]	4H

(Δ^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 Δ^4 ligand during larval development and adulthood (Δ^4).

[‡]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*.