

Table S3 Comparison with Sorensen et al. gene lists

Selected line	In Sorensen's list	Expressed in this experiment	<i>Inb</i> effects		<i>Inb</i> same dir.		<i>Dep</i> effects		<i>Dep</i> same dir.	
			OBS	EXP	OBS	EXP	OBS	EXP	OBS	EXP
Heat survival	94	78	28	33.12	6	-	12	12.76	5	
Starvation	230	176	74	74.73	19	22.20	20	28.80	12	11.80
Longevity	64	54	27	22.92	8	8.10	9	8.83	2	5.31
Heat knock down	21	16	4	6.79	3	2.80	8	2.62	8	3.28
Dessication	262	154	53	65.39	20	15.9	21	25.20	11	12.39
Constant 30° C	12	10	4	4.25	2	3.00	0	1.64	0	-
Combined	262	245	108	104.03	51	75.6	46	40.08	24	18.86
Goodness-of-fit χ^2			4.82, $P = 0.566$, 6 d.f.		6.35, $P = 0.273$, 5 d.f.		17.44, $P = 0.008$, 6 d.f.		8.93, $P = 0.063$, 4 d.f.	

Numbers of genes differentially expressed in the Sorensen et al. (2003) stress selection lines; number of these genes expressed in our experiment (only the counts in the *Inb* analysis lists are shown; the counts difference with the *Dep* analysis lists was never greater than two); of these, numbers showing *Inb* or *Dep* effects ($P < 0.05$ in *t* test and ANOVA respectively); of these, numbers with expression changed in the same direction as in the Sorensen's et al experiment. The expected numbers of *Inb* and *Dep* effects genes were calculated as: number of Sorensen's et al. significant genes expressed in this experiment \times our overall proportion of genes showing *Inb* or *Dep* effects (0.42 and 0.16). The expected counts in the same direction were calculated using the number of expressed genes with *Inb* or *Dep* effects \times overall proportion of up- or down-regulated genes in our experiment (0.7 and 0.3 for *Inb* and 0.41 and 0.59 for *Dep*). All genes in each selected line list showed changes in the same direction, with the exception of Heat survival, for which we calculated no expected direction changes. Combined: genes differentially expressed in a joint analysis of all selected lines versus controls in Sorensen's et al. experiment.