

Table S1 C. elegans strains used in this study

Strain	Genotype	Reference
IT60	<i>puf-8(zh17) unc-4(e120) / mnC1 II</i>	(Ariz et al. 2009)
JH1500	<i>puf-8(ok302) unc-4(e120) / mnC1 II</i>	(Subramaniam and Seydoux 2003)
JK3231	<i>puf-8(q725) II</i>	(Bachorik and Kimble 2005)
IT969	<i>puf-8(zh17) unc-4(e120) / mnC1 II; dpy-5(e61)</i>	This study
IT85	<i>dpy-5(e61) gld-1(q485) / hT1 I; puf-8(zh17) unc-4(e120) / mnC1 II</i>	(Ariz 2010)
IT970	<i>dpy-5(e61) gld-1(q485) / hT1 I; unc-4(e120) II</i>	This study
JH190	<i>fem-3(q20) IV</i>	(Barton et al. 1987)
BA606	<i>spe-6(hc49) unc-25(e156) III; eDp6(III;f)</i>	(Varkey et al. 1993)
IT995	<i>puf-8(zh17) unc-4(e120)/mnC1 II; fem-3(q20)/fem-3(q20) IV</i>	This study
IT996	<i>dpy-5(e61) gld-1(q485)/hT1 I; fem-3(q20)/fem-3(q20) IV</i>	This study
IT997	<i>dpy-5(e61) gld-1(q485)/hT1 I; puf-8(zh17) unc-4(e120)/mnC1 II; fem-3(q20) IV</i>	This study
RB798	<i>rrf-1(ok589) I</i>	International C. elegans Gene Knockout Consortium
IT179	<i>rrf-1(ok589) I; puf-8(zh17) II</i>	(Ariz 2010)
IT253	<i>rrf-1(ok589) I; puf-8(ok302) II</i>	(Ariz 2010)
IT958	<i>dpy-5(e61) gld-1(q485) / hT2 I; puf-8(zh17) unc-4(e120) / mnC1 II; spe-6(hc49) unc-25(e156) / hT2 III</i>	This study
IT971	<i>dpy-5(e61) gld-1(q485) / hT2 I; spe-6(hc49) unc-25(e156) / hT2 III</i>	This study
EJ238	<i>mek-2(q425) unc-11(e47) I; sDp2 (I; f)</i>	(Church et al. 1995)
GC833	<i>glp-1(ar202) III</i>	(Pepper et al. 2003)