

Table S1. Strains and mutants used in this study.

Strain	Genotype
Bristol N2	wild type
CB4856	Hawaiian variant for SNP source
SP2275	<i>tsp-15(sv15)</i>
VC332	<i>tsp-15(gk201)</i>
VC633	<i>tsp-15(ok854)/hT2</i>
VC634	<i>tsp-15(ok881)/hT2</i>
OB69	<i>tsp-15(tm1666)/hT2</i>
CB767	<i>bli-3(e767)</i>
MT1141	<i>bli-3(n529)</i>
OB13	<i>tsp-15(sv15); imEx13[dpy-7p::HisXp::tsp-15]</i>
OB14	<i>tsp-15(sv15); imEx14[tsp-15::gfp]</i>
OB43	<i>imIs1[dpy-7p::gfp]</i>
OB65	<i>tsp-15(ok854); imEx64[dpy-7p::HisXp::tsp-15]</i>
OB67	<i>tsp-15(ok881); imEx65[dpy-7p::HisXp::tsp-15]</i>
OB70	<i>tsp-15(tm1666); imEx67[dpy-7p::HisXp::tsp-15]</i>
OB104	<i>tsp-15(ok881)/unc-29(e1072) lin-11(n566)</i>
OB129	<i>tsp-15(ok854); imEx89[tsp-15p::HisXp::tsp-15]</i>
OB140	<i>bli-3(im10)</i>
OB143	<i>bli-3(gk141)/hT2</i>
OB149	<i>bli-3(im10)/hT2</i>
OB154	<i>bli-3(e767); imEx13[dpy-7p::HisXp::tsp-15]</i>
OB156	<i>bli-3(n529); imEx13[dpy-7p::HisXp::tsp-15]</i>
OB208	<i>doxa-1(im21)/hT2</i>
OB218	<i>doxa-1(im21); imEx113[doxa-1::venus]</i>
OB219	<i>doxa-1(im21); imEx114[dpy-7p::doxa-1]</i>
OB220	<i>bli-3(gk141); imEx115[dpy-7p::bli-3]</i>
OB247	<i>tsp-15(sv15); imEx113[doxa-1::venus]</i>
OB254	<i>bli-3(gk141); imEx144[bli-3]</i>
OB257	<i>tsp-15(sv15); imEx147[bli-3, doxa-1::venus]</i>
OB262	<i>tsp-15(sv15); imEx144[bli-3]</i>
OB263	<i>tsp-15(ok881)/hT2; imEx147[bli-3, doxa-1::venus]</i>
OB265	<i>bli-3(e767); imEx144[bli-3]</i>
OB266	<i>bli-3(im10); imEx144[bli-3]</i>
OB267	<i>bli-3(e767); imEx113 [doxa-1::venus]</i>
OB270	<i>bli-3(e767); imEx148[dpy-7p::HisXp::tsp-15, doxa-1::venus]</i>

OB271 *doxa-1(im21); imEx149[dpy-7p::HisXp::tsp-15, bli-3]*

Strains were obtained from the *Caenorhabditis* Genetic Centre, the *C. elegans* Gene Knockout Consortium, and National BioResource Project Japan. Descriptions of the strains are available on Wormbase (<http://www.wormbase.org>). OB strains and their information can be provided upon request.