

Supplementary Table S1. Strains used in this study.

Strain name	Genotype
GQ669	<i>tbc-8(tm3802)</i>
MT1093	<i>unc-108(n501)</i>
KG1900	<i>unc-108(nu415)</i>
VC461	<i>egl-3(gk238)</i>
RB946	<i>ric-19(ok833)</i>
RB1537	<i>rab-19(ok1845)</i>
GQ688	<i>rab-19(ok1845); nuls183[punc-129::nlp-21-venus]</i>
GQ584	<i>nuls183[punc-129::nlp-21-venus]</i>
GQ026	<i>unc-108(n501); nuls183[punc-129::nlp-21-venus]</i>
GQ142	<i>unc-108(nu415); nuls183[punc-129::nlp-21-venus]</i>
GQ143	<i>egl-3(gk238); nuls183[punc-129::nlp-21-venus]</i>
GQ641	<i>tbc-8(tm3802); nuls183[punc-129::nlp-21-venus]</i>
GQ640	<i>ric-19(ok833); nuls183[punc-129::nlp-21-venus]</i>
GQ642	<i>tbc-8(tm3802); unc-108(n501); nuls183[punc-129::nlp-21-venus]</i>
GQ643	<i>tbc-8(tm3802); unc-108(nu415); nuls183[punc-129::nlp-21-venus]</i>
GQ644	<i>tbc-8(tm3802); egl-3(gk238); nuls183[punc-129::nlp-21-venus]</i>
GQ645	<i>tbc-8(tm3802); ric-19(ok833); nuls183[punc-129::nlp-21-venus]</i>
GQ646	<i>tbc-8(tm3802); nuls183; gEx195[prab-3::tagRFPt-tbc-8]</i>
GQ647	<i>tbc-8(tm3802); nuls183; gEx196[punc-129::tagRFPt-tbc-8]</i>
GQ648	<i>tbc-8(tm3802); nuls183; gEx197[punc-129::tagRFPt-tbc-8(R697A)]</i>
GQ649	<i>tbc-8(tm3802); nuls183; gEx198[prab-3::mcherry-rab-5(Q78L)]</i>
GQ585	<i>nuls195[punc-129::ins-22-venus]</i>
GQ650	<i>tbc-8(tm3802); nuls195[punc-129::ins-22-venus]</i>
GQ586	<i>ceIs72[punc-129::ida-1-gfp]</i>
GQ651	<i>tbc-8(tm3802); ceIs72[punc-129::ida-1-gfp]</i>
KG1645	<i>ceIs61[punc-129::flp-3-venus]</i>
GQ652	<i>tbc-8(tm3802); ceIs61[punc-129::flp-3-venus]</i>
KP3292	<i>nuls152[punc-129::gfp-snb-1]</i>
GQ653	<i>tbc-8(tm3802); nuls152[punc-129::gfp-snb-1]</i>
KP3931	<i>nuls168[punc-129::venus-rab-3]</i>
GQ654	<i>tbc-8(tm3802); nuls168[punc-129::venus-rab-3]</i>
Bristol	N2 (wild type)
GQ655	<i>N2; gEx199[ptbc-8::gfp]</i>
GQ661	<i>N2; gEx205[prab-3::yfp-tbc-8; prab-3::mcherry-rab-2]</i>
GQ662	<i>N2; gEx206[prab-3::tagRFPt-tbc-8; prab-3::manns-yfp]</i>
GQ663	<i>N2; gEx207[prab-3::yfp-tbc-8; prab-3::mcherry-apt-9]</i>
GQ664	<i>N2; gEx208[prab-3::yfp-tbc-8; prab-3::mcherry-rab-5]</i>
GQ665	<i>N2; gEx209[prab-3::yfp-tbc-8; prab-3::mcherry-rab-7]</i>
GQ666	<i>N2; gEx210[prab-3::ric-19-yfp]</i>
GQ703	<i>N2; gEx213[prab-3::tagRFPt-tbc-8; prab-3::ric-19-yfp]</i>
GQ704	<i>unc-108(nu415); gEx213[prab-3::tagRFPt-tbc-8; prab-3::ric-19-yfp]</i>
GQ667	<i>tbc-8(tm3802); gEx210[prab-3::ric-19-yfp]</i>
DH1336	<i>bIs34[prme-8::rme-8-gfp; rol-6(su1006)]</i>
GQ672	<i>tbc-8(tm3802); bIs34[prme-8::rme-8-gfp; rol-6(su1006)]</i>
GS1826	<i>arIs36[phsp::ssgfp]</i>
GQ673	<i>tbc-8(tm3802); arIs36[phsp::ssgfp]</i>

GS2526	<i>arIs37[pmyo-3::ssgfp]</i>
GQ674	<i>tbc-8(tm3802);arIs37[pmyo-3::ssgfp]</i>
MD701	<i>bcIs39[plim-7::ced-1-gfp]</i>
GQ675	<i>tbc-8(tm3802);bcIs39[plim-7::ced-1-gfp]</i>
GQ676	<i>unc-108(nu415);bcIs39[plim-7::ced-1-gfp]</i>
GQ677	<i>eri-1(mg366);nuIs183[punc-129::nlp-21-venus]</i>
GQ678	<i>tbc-1(tm2282)</i>
GQ679	<i>tbc-1(tm2282);nuIs183[punc-129::nlp-21-venus]</i>
XW1069	<i>tbc-2(qx20)</i>
GQ680	<i>tbc-2(qx20);nuIs183[punc-129::nlp-21-venus]</i>
GQ681	<i>tbc-4(tm3255)</i>
GQ682	<i>tbc-4(tm3255);nuIs183[punc-129::nlp-21-venus]</i>
RB1959	<i>tbc-11(ok2576)</i>
GQ683	<i>tbc-11(ok2576);nuIs183[punc-129::nlp-21-venus]</i>
VC821	<i>tbc-12(gk362)</i>
GQ684	<i>tbc-12(gk362);nuIs183[punc-129::nlp-21-venus]</i>
RB1516	<i>tbc-13(ok1812)</i>
GQ685	<i>tbc-13(ok1812);nuIs183[punc-129::nlp-21-venus]</i>
GQ686	<i>tbc-18(ok2374)</i>
GQ687	<i>tbc-18(ok2374);nuIs183[punc-129::nlp-21-venus]</i>