**Additional file 10: Table S4:** List of strains used in this study.

|  |  |  |
| --- | --- | --- |
| **Strain** | **Genotype** | **Reference** |
| N2 | *C. elegans* reference strain |  |
| AF16 | *C. briggsae* reference strain |  |
| DY220 | *pry -1(mu38) I* | [1] |
| DY250 | *Cbr*-*pry-1(sy5353) I* | [2] |
| JU1078 | *mfEx33[myo-2::RFP + Cel-dlg-1::GFP]* | [2], M.-A. Felix lab  |
| DY319 | *Cbr*-*pry-1(sy5353) I*; *mfEx[myo-2::RFP + Cel-dlg-1::GFP]* | [2] |
| DY629 | *pry-1(mu38) I*; *wIs78[scm::GFP+ajm-1::GFP+F58E10 (cosmid)+unc-119(+)] IV* | This study |
| DY630 | *pry-1(mu38) I*; *maIs150[mir-48p::GFP+unc-119(+)]* | This study |
| DY631 | *pry-1(mu38) I*; *maIs140[mir-241p::GFP+unc-119(+)]* | This study |
| DY636 | *pry-1(mu38) I*; *maIs138[mir-84p::GFP+unc-119(+)]* | This study |
| DY637 | *pry-1(mu38) I; maIs236[mir-246p::GFP+unc-119(+)]* | This study |
| DY638 | *pry-1(gk3682)I*;*wIs78[scm::GFP+ajm-1::GFP+F58E10 (cosmid)+unc-119(+)] IV* | This study |
| DY646 | *miR-246(n4636) IV; stIs11597[dpy-7::H1-wCherry+unc-119(+)]* | This study |
| DY649 | *miR-246(n4636) IV; wIs51 [scm::GFP+unc-119(+)] V* | This study |
| JR667 | *unc-119(e2498::Tc1) III*; *wIs51 [scm::GFP+unc-119(+)] V* | [3] |
| JK3437 | *him-5(e1490) V, qIs74 [sys-1p::GFP::pop-1 + unc-119(+)]* | [4] |
| KN562 | *pop-1(hu9) I* | [1] |
| MT15020 | *miR-246(n4636) IV* | [5] |
| RG733 | *wIs78[scm::GFP+ajm-1::GFP+F58E10 (cosmid)+unc-119(+)] IV* | [3] |
| RW11597 | *unc-119(tm4063) III; stIs11597[dpy-7::H1-wCherry+unc-119(+)]* | R. H. Waterston lab |
| VT1259 | *unc-119(ed3) III; maIs150[mir-48p::GFP+unc-119(+)]* | [6] |
| VT1607 | *unc-119(ed3) III; maIs236[mir-246p::GFP+unc-119(+)]* | [6] |
| VT1189 | *unc-119(ed3) III; maIs140[mir-241p::GFP+unc-119(+)]* | [6] |
| VT1160 | *unc-119(ed3) III; maIs138[mir-84p::GFP+unc-119(+)]* | [6] |
| VC3710 | *pry-1(gk3682) I* | This study |

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