**Table S2. Strains used for this study.**

|  |  |
| --- | --- |
| N2 | wild type |
| AZ235 | *unc-119(ed3) III; ruls48[pAZ147 Ppie-1::tbb-2::gfp, unc-119(+)]* [1] |
| KK1181 | *usp-47(tm4954) II* outcrossed to N2 one time |
| FX2616 | *lgl-1(tm2616) X* [2] |
| JJ1473 | *unc-119(ed3) III; zuls45[nmy-2::nmy-2::gfp+unc-119(+)] V*. [3] |
| KK83 | *par-2(e2030) unc-32(e189) III* [4] |
| KK196 | *par-3(e2074)III; sup-7(st5) X* [4] |
| KK300 | *par-4(it57ts) V* [5] |
| KK574 | *par-2(it87) unc-32(e189) III* [5] |
| KK747 | *par-2(lw32) unc-45(e286ts)/ sC1 III* [6] |
| KK810 | *par-1(zu310ts) V* |
| KK879 | *itIs153 [Ppie-1::par-2::gfp] II; par-2(lw32) unc-45(e286ts) III* |
| KK1033 | *par-2(it5ts) III* – outcrossed to N2 one time from KK418 [4] |
| KK1042 | *itIs272[Ppar-6::par-6::mCherry, unc-119(+); unc-119(ed4) III* (K. Basch, H. Kim, K. Kemphues unpublished) |
| KK1056 | *math-33(tm3561) V* – outcrossed to N2 nine times from RB2194 |
| KK1064 | *itIs288[Ppie-1::gfp-tev-s::math-33 +unc-119(+)]; unc-119(ed4) III* |
| KK1069 | *math-33(tm3561) V / nT1[qIs51] myo-2::gfp pes-10::gfp F22B7.9::gfp (IV:V)* |
| KK1070 | *itIs153[Ppie-1::par-2::gfp] II; math-33(tm3561) V / nT1[qIs51] myo-2::gfp pes-10::gfp F22B7.9::gfp (IV:V)* |
| KK1091 | *unc-119(ed4) III; math-33(tm3561)V; itIs288[Ppie-1::gfp::math-33, unc-119(+)]* |
| KK1094 | *unc-119(ed3) III; math-33(tm3561)V; ruls48[pAZ147 Ppie-1::tbb-2::gfp, unc-119(+)]* |
| KK1098 | *math-33(tm3561)* *zuls45[Pnmy-2::nmy-2::GFP, unc-119(+)] V* |
| KK1119 | *par-2(lw32) unc-45(e286ts) III; itIs256[Plgl-1::lgl-1::gfp, unc-119(+)] V* [2] |
| KK1103 | *math-33(tm3561) V; itIs256[Plgl-1::lgl-1::gfp, unc-119(+)]; itIs272[Ppar-6::par-6::mCherry, unc-119(+)]* |
| KK1136 | *itIs290[Ppie-1::gfp-tev-s::usp-47 +unc-119(+)]; unc-119(ed4) III* |
| KK1138 | *rpn-10(tm1180) I; math-33(tm3561) V* |
| KK1139 | *rpn-10(tm1349) I; math-33(tm3561) V* |
| KK1174 | *rpn-10(tm1349) I;* *math-33(tm3561)V; ruls48[pAZ147 Ppie-1::tbb-2::gfp, unc-119(+)]* |
| KK1180 | *usp-46(ok2232) III* – outcrossed to N2 three times \* |
| KK1181 | *usp-46(ok2232) III; math-33(tm3561) V / nT1[qIs51] myo-2::gfp pes-10::gfp F22B7.9::gfp (IV:V)\** |
| RB2194 | *math-33(ok2974) V* |
| UM25 | *rpn-10(tm1349) I* [7] |
| UM26 | *rpn-10(tm1180) I* [7] |

\* These two strains were lost due to incubator malfunction.

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