**Table S1**: Strains used in this study

|  |  |  |
| --- | --- | --- |
| Strain | Genotype | Ref |
| N2 | Wild type Bristol |  |
| CL2166 | *dvIs19 [(pAF15) gst-4p::GFP::NLS] III* | (1) |
| MT3179 | *sem-4(n1378) I* | (2) |
| MT5825 | *sem-4(n1971) I* | (2) |
| OP57 | *unc-119(ed3) III;wgIs57* [*sem-4*::TY1::EGFP::3xFLAG(92C12) + *unc-119(+)*] | (3 |
| YF15 | *brap-2(ok1492) II* | (4) |
| YF67 | *brap-2(ok1492);dvIs19* | (5) |
| YF162 | *sem-4(n1378);brap-2(ok1492);dvIs19* | This study |
| YF163 | *sem-4(n1378);dvIs19* | This study |
| YF167 | *sem-4(n1378);brap-2(ok1492);* | This study |
| YF168 | *brap-2(ok1492);wgIs57* | This study |
| YF174 | *sem-4(n1971);brap-2(ok1492)* | This study |
| YF175 | *sem-4(n1971);dvIs19* | This study |
| YF176 | *sem-4(n1971);brap-2(ok1492);dvIs19* | This study |

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