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| **List of wormstrains** | | |
| **genotype of original strains** | **strain** | **Reference** |
| wild type, Bristol | N2 | [Brenner, 1974](#_ENREF_3) |
| *sas-7(or1940[gfp::sas-7])III* | EU2873 | [Sugioka et al., 2017](#_ENREF_15) |
| *nmy-2(ges6(nmy-2::RFP-T+unc-119(+)))I* | SWG008 | [Nishikawa, Naganathan, Julicher, & Grill, 2017](#_ENREF_9) |
| *par-2(it328[gfp::par-2])III* | KK1273 | Ken Kemphues, unpublished  https://cgc.umn.edu/strain/KK1273 |
| *par-6(it319[par-6::gfp])I* | KK1248 | Ken Kemphues, unpublished  https://cgc.umn.edu/strain/KK1248 |
| *par-2(it315[mcherry::par-2])III* | KK1254 | Ken Kemphues, unpublished  https://cgc.umn.edu/strain/KK1254 |
| *pkc-3(it309[gfp::pkc-3])II* | KK1228 | Ken Kemphues  [Rodriguez et al., 2017](#_ENREF_12) |
| *mex-5(ax3050[mcherry::mex-5])IV* | JH3296 | [Smith et al., 2016](#_ENREF_14) |
| *unc-119(ed3)III; tjls173[Ppie-1::gfp::air-1R + unc-119(+)]* | SA378 | [Toya, Terasawa, Nagata, Iida, & Sugimoto, 2011](#_ENREF_16) |
| *unc-119(ed3)III; tjls188[Ppie-1 promoter-gfp::air-1RT201A + unc-119(+)]* | SA400 | [Toya, Terasawa, Nagata, Iida, & Sugimoto, 2011](#_ENREF_4) |
| *unc-119(ed3)III; axIs1933[pFM034, gfp::par-2 RNAi-resistant + unc-119(+)]* | JH2814 | [Motegi et al., 2011](#_ENREF_7) |
| *unc-119(ed3)III; axIs1936[pFM037, gfp::par-2 RNAi-resistant(R163A) + unc-119(+)]* | JH2817 | [Motegi et al., 2011](#_ENREF_1) |
| *unc-119(ed3)III; axIs1934[pFM035, gfp::par-2 RNAi-resistant(R183-5A) + unc-119(+)]* | JH2815 | [Motegi et al., 2011](#_ENREF_1) |
| *nmy-2(ne3409)I* | WM179 | [Pang et al., 2004](#_ENREF_11) |
| *juIs352[Pcol-19::gfp::moesin]* | [CZ14748](https://cgc.umn.edu/strain/CZ14748) | [Xu & Chisholm, 2011](#_ENREF_19) |
| *spd-2(or293)I* | EU780 | [O'Rourke et al., 2011](#_ENREF_10) |
| *unc-119(ed3)III; zuIs45[Pnmy-2::nmy-2::gfp + unc-119(+)]V* | [CZ14748](https://cgc.umn.edu/strain/CZ14748) | [Munro, Nance, & Priess, 2004](#_ENREF_8) |
| *spd-5(or213)I* | [EU](https://cgc.umn.edu/strain/CZ14748)856 | [Hamill, Severson, Carter, & Bowerman, 2002](#_ENREF_6) |
| *unc-119(ed3)III; itIs38[pAA1, Ppie-1::gfp::ph(PLC1delta1 PH) + unc-119(+)]* | [OD58](https://cgc.umn.edu/strain/CZ14748) | [Audhya et al., 2005](#_ENREF_1) |
| *fem-1(hc17)IV* | BA17 | [Wilson et al., 2006](#_ENREF_18) |
| *xsSi3[gfp::utrophin + Cbr-unc-119(+)]II; unc-119(ed3)III* | MG589 | [Tse et al., 2012](#_ENREF_17) |
| *such-1(t1668) unc-32(e189)/qC1 [dpy-19(e1259) glp-1(q339)]III; him-3(e1147)* | GZ759 | [Bezler & Gönczy, 2010](#_ENREF_2) |
| **genotype of original strains** | **strain** | **Reference** |
| *mcm-4(e1466) dpy-5(e61) I/hT2 [bli-4(e937) let-?(q782) qIs48] (I;III)* | JK2739 | Judith Kimble  https://cgc.umn.edu/strain/JK2739 |
| *zif-1(gk117)III;air-1(wow14[air-1::zf::gfp])V;wowEx34* | JLF189 | [Sallee, Zonka, Skokan, Raftrey, & Feldman, 2018](#_ENREF_13) |
| *mat-1(ax161)I; him-8(e1489) IV* | DS77 | [Golden et al., 2000](#_ENREF_5) |
| *unc-119(ed3) III; par-2(ok1723); ddIs239[pie-1::GFP::par-2(CAI 0.6) + unc-119(+)]* | TH415 | [Goehring, Hoege, Grill, & Hyman, 2011](#_ENREF_4) |
| **genotype of new strains generated in this study** | **strain** | **Reference** |
| *sas-7(is1[rfp::sas-7+loxP])III; glo-1(zu931)X* | GZ1522 | this study |
| *unc-119(ed3)III; isIs44[Ppie-1::gbp::mCherry::air-1 + unc-119(+)]* | GZ1232 | this study |
| *spd-2(is2(rfp::spd-2+loxP))I* | GZ1497 | this study |
| **genotype of crossed strains** | **strain** | **Reference** |
| *nmy-2(ges6(nmy-2::RFP-T+unc-119(+)))I; par-2(it328[gfp::par-2]) sas-7(or1940[gfp::sas-7])III* | GZ1476 | this study |
| *par-6(it319[par-6::gfp])I; par-2(it315[mcherry::par-2]) sas-7(is1[rfp::sas-7+loxP])III* | GZ1591 | this study |
| *par-2(it315[mcherry::par-2])III; tjls173[Ppie-1::gfp::air-1R + unc-119(+)]* | GZ1465 | this study |
| *par-2(it315[mcherry::par-2])III; tjls188[Ppie-1 promoter-gfp::air-1RT201A + unc-119(+)]* | GZ1466 | this study |
| *nmy-2(ges6(nmy-2::RFP-T+unc-119(+)))I; axIs1933[pFM034, gfp::par-2 RNAi-resistant + unc-119(+)]* | GZ1642 | this study |
| *nmy-2(ges6(nmy-2::RFP-T+unc-119(+)))I; axIs1936[pFM037, gfp::par-2 RNAi-resistant(R163A) + unc-119(+)]* | GZ1643 | this study |
| *spd-2(or293)I; par-2(it328[gfp::par-2]) sas-7(or1940[gfp::sas-7])III; zuIs45[Pnmy-2::nmy-2::gfp + unc-119(+)]V* | GZ1589 | this study |
| *par-2(it315[mcherry::par-2]) sas-7(is1[rfp::sas-7+loxP])III; zuIs45[Pnmy-2::nmy-2::gfp + unc-119(+)]V* | GZ1588 | this study |
| *spd-5(or213)I, par-2(it315[mcherry::par-2]) sas-7(is1[rfp::sas-7+loxP])III; zuIs45[Pnmy-2::nmy-2::gfp + unc-119(+)]V* | GZ1617 | this study |
| *isIs44[Ppie-1::gbp::mCherry::air-1 + unc-119(+)] itIs38[pAA1, Ppie-1::gfp::ph(PLC1delta1 PH) + unc-119(+)]* | GZ1233 | this study |
| *par-2(it328[gfp::par-2])III; such-1(t1668)/mcm-4(e1466) dpy-5(e61) I/hT2 [bli-4(e937) let-?(q782) qIs48] (I;III)* | GZ1515 | this study |
| *nmy-2(ges6(nmy-2::RFP-T+unc-119(+)))I*; par-2(it328[gfp::par-2]) sas-7(or1940[gfp::sas-7])III; *fem-1(hc17)IV* | GZ1546 | this study |
| *nmy-2(ne3409)I; xsSi3[gfp::utrophin + Cbr-unc-119(+)]II* | GZ1619 | this study |
| *nmy-2(ne3409)I; par-2(it328[gfp::par-2]) sas-7(or1940[gfp::sas-7])III* | GZ1618 | this study |
| *par-2(it315[mcherry::par-2]); isIs44[Ppie-1::gbp::mCherry::air-1 + unc-119(+)]* | GZ1622 | this study |
| *mat-1(ax161)I; par-2(it315(mCherry::par-2))III; sas-7(is1[rfp::sas-7+loxP])III; ltIs25 [pAZ132: unc-119 (+) pie-1-gfp- tba-2]* | GZ1615 | this study |
| *Unc-119(ed3)III; nBsIs20*[pNP99:unc-119(+)tbb-1p-mCherry-tbb-2-tbb-2 UTR*]; unc-119(ed3)III; tjls173[Ppie-1::gfp::air-1R +unc-119(+)]* | GZ1226 | this study |
| *Unc-119(ed3)III; nBsIs20*[pNP99:unc-119(+)tbb-1p-mCherry-tbb-2-tbb-2 UTR*]; unc-119(ed3)III; tjls188[Ppie-1 promoter-gfp::air-1RT201A + unc-119(+)]* | GZ1648 | this study |
| *zif-1(gk117)III;air-1(wow14[air-1::zf::gfp])V;wowEx34; unc-119(ed3)III; nBsIs20*[pNP99:unc-119(+)tbb-1p-mCherry-tbb-2-tbb-2 UTR*]* | GZ1698 | this study |

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