**Table S4: Transgenic and CRISPR Strains**

|  |  |  |
| --- | --- | --- |
| **Figure** | **Strain** | **Genotype** |
| Figure 1, 2 | XMN829 | *muIs32* [Pmec-7::GFP] II; *rpm-1*(*ju44*) *bggIs9* [Prpm-1::GS::RPM-1; Pmyo-2::mCherry; pha-1(+)] V |
| Figure 1 | XMN830 | *muIs32* [Pmec-7::GFP]; *bggIs19* [Prpm-1::GS::RPM-1 LD  Pmyo-2::mCherry; pha-1(+)] II; *rpm-1*(*ju44*) V |
| Figure 1, 2 | XMN831 | *muIs32* [Pmec-7::GFP] II; *rpm-1*(*ju44*) V; *bggIs23* [Prpm-1::GS::GFP; Pmyo-2::mCherry, pha-1(+)] |
| Figure 3, 5 | XMN1242 | *pat-3*(*bgg86* [PAT-3::GFP CRISPR]); *jsIs973* [Pmec-7::mRFP; unc-119 (+)] III |
| Figure 3, 5, 7 | XMN1231 | *tln-1*(*zh117* [GFP::TLN-1 CRISPR]) I; *jsIs973* [Pmec-7::mRFP, unc-119 (+)] III |
| Figure 3, 5 | XMN1168 | *jsIs973* [Pmec-7::mRFP, unc-119(+)] III; *unc-112*(*bgg68* [UNC-112::GFP CRISPR]) V |
| Figure 4 | XMN1450 | *tln-1*(*zh117* [GFP::TLN-1] I; *rpm-1*(*bgg119* [rpm-1::mScarlet CRISPR] V; *bggEx180* (Pmec-17::mTagBFP2, Pttx-3::RFP) |
| Figure 5, 6, 8 | XMN913 | *jsIs973* [Pmec-7::mRFP, unc-119(+)] III |
| Figure 5 | XMN1167 | *itSi953* [Pmec-18::*mecDEG*, unc-119(+)] II; *jsIs973* [Pmec-7::mRFP, unc-119(+)] III |
| Figure 5, 6 | XMN1243 | *itSi953* [Pmec-18::*mecDEG*, unc-119(+)] II; *pat-3*(*bgg86* [PAT-3::GFP]) *jsIs973* [Pmec-7::mRFP, unc-119(+)] III |
| Figure 5, 6, 7, 8 | XMN1230 | *tln-1*(*zh117* [GFP::TLN-1 CRISPR]) I; *itSi953* [Pmec-18::*mecDEG*, unc-119(+)] II; *jsIs973* [Pmec-7::mRFP, unc-119(+)] III |
| Figure 5, 6 | XMN1359 | *itSi953* [Pmec-18::*mecDEG*, unc-119(+)] II; *jsIs973* [Pmec-7::mRFP, unc-119(+)] III; *unc-112*(*bgg68* [UNC-112::GFP CRISPR]) V |
| Figure 5 | XMN1229 | *tln-1*(*ok1648*) I; *jsIs973* [Pmec-7::mRFP, unc-119(+)] III |
| Figure 6, 8 | XMN1152 | *jsIs973* [Pmec-7::mRFP, unc-119(+)] III; *rpm-1(ju44)* V |
| Figure 6, 7 | XMN1272 | *itSi953* [Pmec-18::*mecDEG*, unc-119(+)] II; *jsIs973* [Pmec-7::mRFP, unc-119(+)] III; *rpm-1(ju44)* V |
| Figure 6 | XMN1366 | *itSi953* [Pmec-18::*mecDEG*, unc-119(+)] II; *pat-3*(*bgg86* [PAT-3::GFP]) *jsIs973* [Pmec-7::mRFP, unc-119(+)] III; *rpm-1(ju44)* V |
| Figure 6, 7 | XMN1305 | *rpm-1(ju44)* V; *tln-1*(*zh117* [GFP::TLN-1 CRISPR] I;  *itSi953* [Pmec-18::*mecDEG*, unc-119(+)] II; *jsIs973* [Pmec-7::mRFP, unc-119(+)] III |
| Figure 6 | XMN1258 | *itSi953* [Pmec-18::*mecDEG*, unc-119(+)] II; *jsIs973* [Pmec-7::mRFP, unc-119(+)] III; *rpm-1 (ju44)*; *unc-112*(*bgg68* [UNC-112::GFP]) V |
| Figure 5 | XMN1412 | *tln-1*(*zh117* [GFP::TLN-1 CRISPR]) I; *itSi953* [Pmec-18::*mecDEG*, unc-119(+)] II; *jsIs973* [Pmec-7::mRFP, unc-119(+)] III; *bggEx172* (Prgef-1::FLAG::TLN-1, Prps-27::NeoR) |

*mecDEG =* ltSi953 [mec-18p::vhhGFP4::zif-1::operon-linker::mKate::tbb-2 3'UTR + Cbr-unc-119(+)] II