Supplementary file 1

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| **Reference Strain** | **Transgene Name** | **Figure** | **Injection Conditions^** | **Genotype\*** |
| XMN31 | *bggEx8* | 1D | Prpm-1RPM-1 (pCZ160), 25ng/µl  Pmyo-2RFP (pBG-24), 2ng/µl Pbluescript (pBG-49), 75ng/µl | *rpm-1; muIs32* |
| - | *2*  *transgenic lines* | 1D | Pmec-3RPM-1::GFP (pBG-46), 20ng/µl  Pmyo-2RFP (pBG-24), 2ng/µl) pBluescript (pBG-49), 78ng/µl | *rpm-1; muIs32* |
| XMN768 | *bggEx127* | 2A, B | Pmec-3RPM-1::GFP (pBG-46), 20ng/µl  Pmec-7tdTOMATO (pBG-GY575), 15ng/µl Pttx-3GFP (pBG-40), 50ng/µl  pBluescript (pBG-49), 15ng/µl | *rpm-1; muIs32* |
| - | *4*  *transgenic lines* | 6C | Patat-2ATAT-2, 0.2ng/µl PCR product  Pttx-3RFP (pBG-41), 50ng/µl pBluescript (pBG-49), 49ng/µl | *atat-2; zdIs5* |
| - | *6*  *transgenes* | 6C | Pmec-7ATAT-2, 0.2ng/µl PCR product  Pttx-3RFP (pBG-41), 50ng/µl pBluescript (pBG-49), 45ng/µl | *atat-2; zdIs5* |
| - | *6*  *transgenic lines* | 6C | Pmec-7ATAT-2 dead, 0.2ng/µl PCR product Pttx-3RFP (pBG-41), 50ng/µl  pBluescript (pBG-49), 49.8ng/µl | *atat-2; zdIs5* |
| - | *3*  *transgenic lines* | 6C | Pmec-7mCherry (pBG-GY258), 0.2ng/µl PCR product  Pttx-3RFP (pBG-41), 50ng/µl pBluescript (pBG-49), 49.8ng/µl | *atat-2; zdIs5* |
| XMN996 | *bggEx141* | S1 | Pmec-7SYD-2::mScarlet (pBG-GY936), 5ng/µl Pttx-3RFP (pBG-41), 50ng/µl  NeoR (pBG-264), 2ng/µl  pBluescript (pBG-49), 43ng/µl | *muIs32* |
| XMN997 | *bggEx141* | S1 | Pmec-7SYD-2::mScarlet (pBG-GY936), 5ng/µl Pttx-3RFP (pBG-41), 50ng/µl  NeoR (pBG-264), 2ng/µl  pBluescript (pBG-49), 43ng/µl | *rpm-1; muIs32* |