**Supplementary Table 1**

**List of primers**

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| **Oligonucleotides** | **Source** | **Identifier** |
| AAAAAATGCTCGAGACGGTACCGGTAGAAAAAATGTCCAAGGGAGAGGAGCTTTTCACCG | This Paper | splitGFP1-10\_Xhol\_F |
| CTCAGTTGGAATTCTCAGGATCCTCCTCCTCCGGTTCCCTTCTCGTTTGGGTCCTTGGAA | This Paper | splitGFP1-10\_EcoRl\_R |
| GACCCTTGGCTAGCATGCGAGATCATATGGTTCTGCACGA | This Paper | splitGFP11\_3xPH-PLCδ1\_Nhel\_F |
| TTTCTACCGGTACCTGCTTCTGTCTTTGATCCATTGAACC | This Paper | splitGFP11\_3xPH-PLCδ1\_Kpnl\_R |
| CTCAGTTGGAATTCTTAGTGCTTCTGTCTTTGATCCATTG | This Paper | splitGFP11\_3xPH-PLCδ1 \_EcoRl\_R |
| ACGAATTGGGCGCGCCATGGTCAGCAAGGGAGAGGCAGTTATCAA | This Paper | wrmScarlet\_Ascl\_F |
| ATGTCGACGAATTCGCTAGCCTTGTAGAGCTCGTCCATTCCTCCG | This Paper | wrmScarlet\_EcoRl\_R |
| GGTGGCAAATTCATGACGGTACCGGTAGAAAAAATGCTCGAG | This Paper | splitGFP11\_mutagenesis\_F |
| TGTAATGCCGGCAGCGTTGACGTATTCGTGCAGAACCATATG | This Paper | splitGFP11\_mutagenesis\_R |
| CCAGAGCTCACCTAGGATCTATTCCAGAGTTCGTTCCCGA | This Paper | pMLS262\_itr-1pB\_Avrll\_F |
| CAAACTTGGGCCGGCCCAATTCGTGTGCTTCCACCACCAC | This Paper | pMLS262\_itr-1pB\_Fsel\_R |
| AGAGCTCACCTAGGATCTCAACATAGTAGATTTTTAAAAA | This Paper | pMLS262\_odr-3p\_Avrll\_F |
| CAAACTTGGGCCGGCCATCTAAAAAAACAATGATCTATGA | This Paper | pMLS262\_odr-3p\_Fsel\_R |
| GACCCTTGGCTAGCATGGATTGGAAAATAACAATATTCACATACA | This Paper | cil-1\_Nhel\_F |
| TTTCTACCGGTACCGTCTATGGTTGTTCAACTATTTGAAAGACTT | This Paper | cil-1\_stop\_Kpnl\_R |
| TGGTGACTTCGCCTTTCGCGTAGAAGAGGATGTGAATACA | This Paper | cil-1\_N175A\_mutagenesis\_F |
| AACCAGAATGCTGCTCTGACACTCTTATCCTCTGGAAACG | This Paper | cil-1\_N175A\_mutagenesis\_R |
| GAGACAGCGGTACCGTCTATGCAGCGGGTGCAGTAACTCTAAACA | This Paper | cil-1\_ΔSKICH\_Kpn1\_R |
| AGTGGTACCGATTGGAAAATAACAATATTCACATACAATCTGGCC | This Paper | KpnI-cil-1\_S |
| GGTGGATCCCTATGCAGCGGGTGCAGTAACTCTAAACATTG | This Paper | BamHI-stop-cil-1\_AS |
| TAGAACATTTTCAGGAGGACCCTTGGCTAGCATGGGCTGCGTGTGCAGCAGCAACCCCGA | This Paper | Lck\_mScarlet\_5ptase\_CIL-1\_F |
| TGGTAGCGACCGGCGCTCAGTTGGAATTCCTATGCAGCGGGTGCAGTAACTCTAAACATT | This Paper | Lck\_mScarlet\_5ptase\_CIL-1\_R |
| ACGAATTGGGCGCGCCATGATTTTACTTATTCTCACTTCGATATT | This Paper | CP450\_Ascl\_F |
| CAATCCATGCTAGCATATCTTTCCTTCATTGAAACTCTGTAATTC | This Paper | CP450\_Nhel\_R |
| ACGAATTGGGCGCGCCATGAAATTCTCACTCTTCGCCCTA | This Paper | TRAPbeta\_T04G9.5\_AscI\_F |
| GGTCCTCCCCCGGGACAGTAGACTTCTTCTTGATAACATT | This Paper | TRAPbeta\_T04G9.5\_SmaI\_R |
| ACTGACTGGGCCGGCCCTGACACTAAGTTTCTCTGCAGTGTTACACGAAC | This Paper | mig-13p\_Fsel\_F |
| CCTCTAGAGGCGCGCCTACCTGAAATTCTGAATTAAATGATAATTGAAGA | This Paper | mig-13p\_Ascl\_R |
| ACGAATTGGGCGCGCCATGGAAACAACTCCTCAAAACGAG | This Paper | atln-1\_AscI\_F |
| AATACCATGGTACCCTAATGCCGTTTTCTGAGTCCATCAG | This Paper | atln-1\_stop\_KpnI\_R |
| GGAGCTTCTCAAGTACTTTAAGGCTTATATGCACATTTTCAGAGGCCAAG | This Paper | atln-1\_E338K\_site mutation\_F |
| CGGCACGTCATCTTTTGACCGTTAATCTCCTTATGAACGAGAGCGTGTGA | This Paper | atln-1\_E338K\_site mutation\_R |
| TCGTAAAGGAGCATCCTTCCTTTTAAACTTTTTCCTTCGTTATTTGACAT | This Paper | atln-1\_K80A\_site mutation\_F |
| TATGCACCGGCAACTCCGATTACGGCAACCTTTTTATCGGCGACTTTCGG | This Paper | atln-1\_K80A\_site mutation\_R |
| AAAGATATGCTAGCCAAGATGTCAAAATTTGTGTTTCAACATTTA | This Paper | ocrl-1\_IPPc\_Nhel-F |
| CTCACCATCTCGAGCTAATTGATTTTCTTTACTTTCAAATTGAAC | This Paper | ocrl-1\_IPPc\_XhoI-R |
| AAAGATATGCTAGCCAATCCATTAAAATATTCGTTGGAACTTGGA | This Paper | unc-26\_IPPc\_Nhel-F |
| GAGACAGCGGTACCGTCTAGCCAACTTTAAAAGTTTCCACTTTGA | This Paper | unc-26\_IPPc\_Kpnl-R |
| TGGTAGCGACCGGCGCTCAGTTGGAATTCCTAATTGATTTTCTTTACTTTCAAATTGAAC | This Paper | Lck\_mScarlet\_5ptase\_OCRL-1\_R |
| ATGGTAGCGACCGGCGCTCAGTTGGAATTCCTAGCCAACTTTAAAAGTTTCCACTTTGAA | This Paper | Lck\_mScarlet\_5ptase\_UNC-26\_R |
| TGTACAAGGCTAGCATGCCCTCGGCCAAACAAAGGGGCTCCAAGG | This Paper | CLIMP-63\_NheI-F |
| AATACCATGGTACCTTAGACCTTTTCGTGAATCTTCTCCACTTTC | This Paper | CLIMP-63\_KpnI-R |
| AGATCTCGAGGCCACCATGATTTTACTTATTCTCACTTCGATATT | This Paper | XhoI-CP450\_S |
| CCGGGCCCCATTGATTTTCTTTACTTTCAAATTGAACATGGCTCG | This Paper | ApaI-ocrl1\_AS |
| CCCGGGCCCCGCCAACTTTAAAAGTTTCCACTTTGAAAACAGC | This Paper | ApaI-unc-26\_AS |
| ggcTGTACACAAGATGTCAAAATTTGTGTTTCAACATTTAATGTG | This Paper | BsrGI-ocrl1\_S |
| GGTGGATCCCTAATTGATTTTCTTTACTTTCAAATTGAACATGGC | This Paper | BamHI-stop-ocrl1 \_AS |
| AGTGGTACCCAATCCATTAAAATATTCGTTGGAACTTGGAATGTG | This Paper | KpnI\_unc-26\_S |
| GGTaGATCTCTAGCCAACTTTAAAAGTTTCCACTTTGAAAACAG | This Paper | BglII-stop-unc-26\_AS |

**List of plasmids**

|  |  |  |
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| **Plasmid** | **Source** | **Identifier** |
| *itr-1pB::CP450::splitGFP1-10* | This Paper | JB\_96 |
| *itr-1pB::splitGFP11::3xPHPLCδ1*::mCherry | This Paper | JB\_68 |
| *itr-1pB::splitGFP11::3xPHPLCδ1* | This Paper | JB\_124 |
| *itr-1pB::mNeonGreen::ESYT-2* | This Paper | JB\_73 |
| *itr-1pB::wrmScarlet::ESYT-2* | This Paper | JB\_123 |
| *itr-1pB::split GFP11::mCherry* | This Paper | JB\_67 |
| *itr-1pB::FLP* | This Paper | JB\_29 |
| *odr-3p::FLP* | This Paper | RAI\_4 |
| *itr-1pB::cil-1* | This Paper | JB\_107 |
| *itr-1pB::cil-1N175A* | This Paper | JB\_120 |
| *itr-1pB::cil-1ΔSKICH* | This Paper | JB\_117 |
| *itr-1pB::cil-1PM* | This Paper | JB\_185 |
| *itr-1pB::cil-1ER* | This Paper | JB\_126 |
| *itr-1pB::TRAPbeta::mNeonGreen* | This Paper | RAI\_28 |
| *mig-13p::splitGFP11::mCherry* | This Paper | JB\_137 |
| *itr-1pB::atln-1* | This Paper | RAI\_9 |
| *itr-1pB::atln-1E338K* | This Paper | RAI\_14 |
| *itr-1pB::atln-1K80A* | This Paper | RAI\_21 |
| *itr-1pB::CP450::mCherry* | This Paper | JB\_86 |
| *itr-1pB::ocrl-1ER* | This Paper | JB\_150 |
| *itr-1pB::unc-26ER* | This Paper | JB\_144 |
| *itr-1pB::ocrl-1PM* | This Paper | JB\_186 |
| *itr-1pB::unc-26PM* | This Paper | JB\_187 |
| *itr-1pB::mCherry::CLIMP-63* | This Paper | JB\_174 |
| *OCRL-1ER-EGFP* | This Paper | TN300 |
| *UNC-26ER-EGFP* | This Paper | TN301 |
| *mScarlet-I-CIL-1PM* | This Paper | TN305 |
| *mScarlet-I-OCRL-1PM* | This Paper | TN306 |
| *mScarlet-I-UNC-26PM* | This Paper | TN307 |
| *Lck-mScarlet-I* | Addgene | #98821 |
| *CLIMP-63 pcDNA* | Addgene | #80977 |
| *itr-1pB::cb5::mCherry* | This Paper | JB87 |
| *iRFP-PHPLCδ1* | De Camili lab (Yale University) |  |