**Supplementary Table 2.** Plasmids used in this work.

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| --- | --- | --- | --- |
| **Plasmid** | **Sequences** | **Promoter length** | **Source** |
| PSAB1201 | *odr-1*p::*GCaMP3* | 1.0 kb | This paper |
| PSAB1203 | *srsx-3*p::*mScarlet* | 1.3 kb | This paper |
| PSAB1204 | *odr-1*p::*HisCl1*::*SL2*::*mCherry* | 1.0 kb | This paper |
| PSAB1205 | *srg-47*p::*HisCl1*::*SL2*::*mCherry* | 650 bp | This paper |
| PSAB1206 | *ser-2(2)*p::*FRT*::*HisCl1*:: *SL2*::*mCherry* | 4.7 kb | This paper |
| pWY016 | *ser-2(2)*p::*FRT*::*STOP*::*FRT*  ::*GCaMP6s* | 4.7 kb | This paper |
| PSAB1207 | *ins-1*p::*nCre*::*SL2*::*gfp* | 4.2 kb | This paper |
| PSAB1208 | *gcy-28d*p::*nCre*::*SL2*::*gfp* | 2.8 kb | This paper |
| PSAB1209 | *odr-2b(3a)*p::*nCre*::*SL2*::*gfp* | 441 bp | This paper |
| PSAB1210 | *ifb-2*p::*nCre*::*SL2*::*gfp* | 3.0 kb | This paper |
| PSAB1211 | *ins-1*p::*gfp*::*PEST* | 4.2 kb | This paper |
| PSAB1212 | *srg-47*p::*TIR1*::*mTurquoise2* | 650 bp | This paper |
| PSAB1215 | *gcy-28d*p::*nCre* | 2.8 kb | This paper |
| PSAB1216 | *odr-2b(3a)*p::*nCre* | 441 bp | This paper |
| PSAB1217 | *ifb-2*p::*nCre* | 3.0 kb | This paper |
| PSAB1218 | *gcy-28d*p::*CFP* | 2.8 kb | This paper |
| PSAB1219 | *odr-2b(3a)*p::*CFP* | 441 bp | This paper |
| pWY046 | *odr-2b(3a)*p::*nFlp* | 441 bp | This paper |
| pUA118 | *ceh-36prom2\_del1ASE*p::*TiR1*:: *SL2*::*mTurquoise2* | 1.6 kb | Gift from Oliver Hobert |