Table 1

|  |  |  |
| --- | --- | --- |
| **Strain** | **Description** | **Complete Genotype** |
| MKSP1381 | Original LacO integration used to generate all other strains in this study (Figure S1B) | *h- leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Cut11-mCherry::natMX6* |
| MKSP1173 | Example of LacO array contracting upon integration (Figure S1B) | *h- leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS Leu2::Ura4-LacO<5kb Rad26-mCherry::natMX6* |
| MKSP2123 | WT LacO resection assay | *h- leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-bleMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6* |
| MKSP1914 | *exo1*∆ LacO resection assay | *h- leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::natMX6 urg1::RMCE-kanMX6 exo1::bleMX6* |
| MKSP2501 | *rqh1*∆ LacO resection assay | *h- leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6 rqh1::kanMX6* |
| MKSP2244 | *crb2*∆ LacO resection assay | *h- leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6 crb2::kanMX6* |
| MKSP2476 | *crb2*∆*exo1*∆ LacO resection assay | *h+ leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6 crb2::kanMX6 exo1::bleMX6* |
| MKSP2479 | *crb2*∆*rqh1*∆ LacO resection assay | *h+ leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6 crb2::kanMX6 rqh1::kanMX6* |
| MKSP2149 | *rev7*∆ LacO resection assay | *h+ leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6 rev7::natMX6* |
| MKSP2392 | *rev7*∆*exo1*∆ LacO resection assay | *h+ leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6 rev7::natMX6 exo1::bleMX6* |
| MKSP2456 | *rev7*∆*rqh1*∆ LacO resection assay | *h+ leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6 rev7::natMX6 rqh1::kanMX6* |
| MKSP2245 | *rev7*∆*crb2*∆ LacO resection assay | *h+ leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6 rev7::natMX6 crb2::kanMX6* |
| MKSP2262 | *rev3*∆ LacO resection assay | *h+ leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6 rev3::kanMX6* |
| MKSP2477 | *ctp1*∆ LacO resection assay | *h+ leu1-32 ura4-D18 his7+:PDis1-GFP-LacI-NLS ChrII:3442981::Ura4-10.3kbLacO ChrII:3446249::HOcs-hphMX6 Rad52-mCherry::bleMX6 urg1::RMCE-bleMX6 ctp1::kanMX6* |