**S1 Table *S. pombe* strains used in this study.**

|  |  |  |
| --- | --- | --- |
| Strain number | Genotype | Source  |
| 2470 | *h- adh1::adh1prom-TK::kanMX6 leu1-32::adh1prom-hENT1::leu1+ leu1-32* | [1] |
| 2526 | *h- leu1 ura4 cds1-2HA6His::ura4+* | MY3141 NBRP, Japan |
| 2527 | *chk1-HA::LEU2 ade6-216 leu1-32* | MY2167 NBRP, Japan |
| 2839 | *ade6-704 leu1-32 ura4-D18 rad3ts h-*  | T. Carr  |
| 2840 | *ade6-485 h-* | O. Fleck, used as wt control |
| 3199 | *pol2-D276A/E278A::kanMX6 ade6-485 h- (“exonull ”)* | [2] |
| 3273 | *pol3-D386A::kanMX6 ade6-485 h- (“exonull ”)* |  |
| 3285 | *cdc22-D57N h+* | C. Holmberg (EG1717) |
| 3302 | *pol2P287R::hphMX6 rad11:rad11-GFP::kanMX6 ade6 leu1 ura4 h+* |  |
| 3330 | *rev3::kanMX6* |  |
| 3334 | *kpa1::kanMX6 h-* | S Coulon (SC215) |
| 3336 | *rev1::kanMX6 ade6-704 leu1-32 ura4-D18* | T. Carr (SR34) |
| 3344 | *kpa1::kanMX6 pol2P287R::hphMX6 clone 1* |  |
| 3419 | *pol3P311R::kanMX6, ade6-485 h-* |  |
| 3622 | *pol2P287R::kanMX6 ade6 h-*  |  |
| 3623 | *rad11:rad11-GFP::hphMX6 leu1-32 ura4-D18 h+* | P. Russell |
| 3653 | *eso1-D147N::kanMX6 ura4-D18 leu1-32* | E. Hartsuiker |
| 3693 | *pol2D276A/E278A::kanMX6 rad11:rad11-GFP::hphMX6* |  |
| 3704 | *cds1-2HA6His::ura4+ pol2P287R::kanMX6* |  |
| 3740 | *adh1::adh1prom-TK::kanMX6 leu1-32::adh1prom-hENT1::leu1+ pol2P287R::hphMX6* |  |
| 3741 | *adh1::adh1prom-TK::kanMX6 leu1-32::adh1prom-hENT1::leu1+ pol2P287R::hphMX6* |  |
| 3747 | *pol2P287R::hphMX6 rev1::kanMX6* |  |
| 3753 | *rev3::kanMX6 pol2P287R::hphMX6 h-* |  |
| 3754 | *pol2P287R::kanMX6 ade6-M210 leu1-32 ura4-D18 h-* |  |
| 3756 | *pol2P287R::kanMX6 ade6-M210 leu1-32 ura4-D18 h-* |  |
| 3767 | *pfh1::ura4+-nmt1(81X)pfh1+-GFP h-* | ySP383 [3] |
| 3770 | *pol2P287R::kanMX6* [pREP1-pfh1] | pREP1-pfh1 [4] |
| 3780 | *pfh1::ura4+-nmt1(81X)pfh1+-GFP pol2D276A/E278A::kanMX6* |  |
| 3823 | *pol2D276A/E278A::kanMX6 rad3ts ade6 leu1-32 ura4-D18 clone 1* |  |
| 3824 | *pol2D276A/E278A::kanMX6 rad3ts ade6 leu1-32 ura4- D18clone 2* |  |
| 3825 | *pol2D276A/E278A::kanMX6 rad3ts ade6 leu1-32 ura4- D18 clone 3* |  |
| 3826 | *pol2P287R::kanMX6 rad3ts ade6 leu1-32 ura4-D18 clone 1* |  |
| 3827 | *pol2P287R::kanMX6 rad3ts ade6 leu1-32 ura4-D18 clone 2* |  |
| 3828 | *pol2P287R::kanMX6 rad3ts ade6 leu1-32 ura4-D18 clone 3* |  |
| 3923 | *pol2+-3HA::natMX6 ade6-485* |  |
| 3924 | *pol2::pol2+-3HA::natMX6 ade6-485* |  |
| 3925 | *pol2D276A/E278A-3HA::natMX6 ade6-485* |  |
| 3926 | *pol2P287R-3HA::natMX6 ade6-485* |  |
| 4030 | *pfh1::ura4+-nmt1(81X)pfh1+-GFP pol2P287R::kanMX6* |  |
| 4031 | *eso1-D147N::kanMX6 pol2P287R::hphMX6* |  |
| 4033 | *cds1-2HA6His::ura4+ pol2D276A/E278A::hphMX6*  |  |
| 4034 | *chk1-HA::LEU2 pol2P287R::kanMX6 clone 1* |  |
| 4035 | *chk1-HA::LEU2 pol2P287R::kanMX6 clone 2* |  |
| 4036 | *chk1-HA::LEU2 pol2D276A/E278A::kanMX6* |  |
| 4037 | *adh1::adh1prom-TK::kanMX6 leu1-32::adh1prom-hENT1::leu1+ pol2P287R::hphMX6* |  |
| 4038 | *pol2P287R::kanMX6 cdc22-D57N* |  |

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