

Inhibition of MRN activity by a telomere protein motif

Supplementary Table 1.

List of strains used in this study. All *S. cerevisiae* strains are in the W303 background. *K. lactis* strains are indicated by 'KL' in the number.

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| YAB0 | <i>MAT_a</i> | Lab collection. |
| YAB1 | <i>MAT_α</i> | Lab collection. |
| YAB594 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI rad50S:URA3 [pAB2124]</i> | This study. |
| YAB595 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI::5UASGal4 [pAB2123]</i> | This study. |
| YAB717 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI::5UASGal4 [pAB2124]</i> | This study. |
| YAB734 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI [pAB2123]</i> | This study. |
| YAB781 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI [pAB2124]</i> | This study. |
| YAB1517 | <i>MAT_a ade2-1 his3-200 leu2-3,112 trp1-901 ura3-52 gal4-Δ gal80-Δ MET2::GAL7-lacZ LYS2::GAL1-HIS3 GAL2-ADE2</i> | Lab collection. |
| YAB1759 | <i>MAT_a rif2-min</i> | This study. |
| YAB1760 | <i>MAT_a rif2-min</i> | This study. |
| YAB1761 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI::5UASGal4</i> | Marcand, S., et al., <i>Genes Dev</i> 22, 1153-1158 (2008). |
| YAB1764 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI::5UASGal4 rif2::HPH</i> | Marcand, S., et al., <i>Genes Dev</i> 22, 1153-1158 (2008). |
| YAB1765 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI</i> | Marcand, S., et al., <i>Genes Dev</i> 22, 1153-1158 (2008). |
| YAB1778KL | <i>Mat_a lysA1 trp1 leu2 metA1 uraA1 mre11::kanMX</i> | Stefan U. Åström. |
| YAB1789 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI::5UASGal4 rif2-min</i> | This study. |
| YAB1984 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI::5UASGal4 tel1::kanMX</i> | This study. |
| YAB1990 | <i>MAT_α::loxP ade2::loxP leu2::pG-HO-L2 lys2::loxP mnt2::LYS2 mnt2::TG80-HO-CA80-ADE2</i> | Ribeyre, C. & Shore, D., <i>Nat Struct Mol Biol</i> 19, 307-313 (2012). |
| YAB1991 | <i>MAT_α::loxP ade2::loxP leu2::pG-HO-L2 lys2::loxP mnt2::LYS2 mnt2::TG80-HO-CA80-ADE2 rif1::NatMX4</i> | Ribeyre, C. & Shore, D., <i>Nat Struct Mol Biol</i> 19, 307-313 (2012). |
| YAB1992 | <i>MAT_α::loxP ade2::loxP leu2::pG-HO-L2 lys2::loxP mnt2::LYS2 mnt2::TG80-HO-CA80-ADE2 rif2::KanMX4</i> | Ribeyre, C. & Shore, D., <i>Nat Struct Mol Biol</i> 19, 307-313 (2012). |
| YAB1993 | <i>MAT_α::loxP ade2::loxP leu2::pG-HO-L2 lys2::loxP mnt2::LYS2 mnt2::TG80-HO-CA80-ADE2 rif1::NatMX4 rif2::KanMX4</i> | Ribeyre, C. & Shore, D., <i>Nat Struct Mol Biol</i> 19, 307-313 (2012). |
| YAB2004KL | <i>MAT_α ade2-202 ura3</i> | Dudy Tzfati. |
| YAB2029 | <i>MAT_a xrs2-664</i> | Shima, et al., <i>Genetics</i> 170, 71-85 (2005). |

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| YAB2035 | <i>MATα::loxP ade2::loxP leu2::pG-HO-L2 lys2::loxP mnt2::LYS2 mnt2::TG80-HO-CA80-ADE2 rif2-min</i> | This study. |
| YAB2037 | <i>MATα::loxP ade2::loxP leu2::pG-HO-L2 lys2::loxP mnt2::LYS2 mnt2::TG80-HO-CA80-ADE2 rif1::NatMX4 rif2-min</i> | This study. |
| YAB2038 | <i>MATα::loxP ade2::loxP leu2::pG-HO-L2 lys2::loxP mnt2::LYS2 mnt2::TG80-HO-CA80-ADE2 rif1::NatMX4 rif2-min</i> | This study. |
| YAB2039 | <i>MATα rif2-min</i> | This study. |
| YAB2047 | <i>MATα xrs2::TRP1</i> | This study. |
| YAB2052 | <i>MATα rif2-min xrs2-664</i> | This study. |
| YAB2053 | <i>MATα rif2-min xrs2-664</i> | This study. |
| YAB2054 | <i>MATα rif2-min xrs2-664</i> | This study. |
| YAB2057 | <i>MATα rif2::ADE2</i> | This study. |
| YAB2058 | <i>MATα rif2::ADE2</i> | This study. |
| YAB2060 | <i>MATα rif2::ADE2</i> | This study. |
| YAB2065 | <i>MATα rif2::ADE2 xrs2::TRP1</i> | This study. |
| YAB2067 | <i>MATα rif2::ADE2 xrs2::TRP1</i> | This study. |
| YAB2106 | <i>MATα tel1::TRP1</i> | This study. |
| YAB2110 | <i>MATα rif2::ADE2 tel1::TRP1</i> | This study. |
| YAB2111 | <i>MATα rif2::ADE2 tel1::TRP1</i> | This study. |
| YAB2112 | <i>MATα rif2-min xrs2::TRP1</i> | This study. |
| YAB2114 | <i>MATα rif2-min tel1::TRP1</i> | This study. |
| YAB2115 | <i>MATα rif2-min tel1::TRP1</i> | This study. |
| YAB2116 | <i>MATα rif2-min xrs2::TRP1</i> | This study. |
| YAB2143KL | <i>trp1 leu2 met? ura3 rif1::URA3</i> | This study. |
| YAB2144KL | <i>lysA1 leu2 met? ura3 rif1::URA3</i> | This study. |
| YAB2145KL | <i>leu2 met? ura3 mre11::kanMX orc4-min rif1::URA3</i> | This study. |

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| YAB2155KL | <i>lysA1 leu2 met? ura3 orc4-min rif1::URA3</i> | This study. |
| YAB2157KL | <i>MAT_a ade2-Δ ura3</i> | Jürgen J. Heinisch. |
| YAB2158KL | <i>MAT_α ade2-Δ ura3</i> | Jürgen J. Heinisch. |
| YAB2171KL | <i>lysA1 met? ura3 mre11::kanMX</i> | Carter, et al., <i>Genetics</i> 175, 1035-1045 (2007). |
| YAB2174KL | <i>MAT_α ura3 orc4-min</i> | This study. |
| YAB2175KL | <i>MAT_a ura3 orc4-min</i> | This study. |
| YAB2176KL | <i>MAT_a ura3 orc4-min</i> | This study. |
| YAB2177KL | <i>MAT_α ura3 orc4-min</i> | This study. |
| YAB2188KL | <i>MAT_α ura3 orc4-min rif1::URA3</i> | This study. |
| YAB2189 | <i>MAT_a RAD50:URA3</i> | This study. |
| YAB2190 | <i>MAT_a his3::Pgal-MIN RAD50:URA3</i> | This study. |
| YAB2191 | <i>MAT_a his3::Pgal-MINmut RAD50:URA3</i> | This study. |
| YAB2192 | <i>MAT_a rad50S:URA3</i> | This study. |
| YAB2193KL | <i>lysA1 met? ura3 mre11::kanMX orc4-min</i> | This study. |
| YAB2194 | <i>MAT_a his3::Pgal-MIN rad50S:URA3</i> | This study. |
| YAB2195 | <i>MAT_a his3::Pgal-MIN rad50S:URA3</i> | This study. |
| YAB2196 | <i>MAT_a his3::Pgal-MINmut rad50S:URA3</i> | This study. |
| YAB2197KL | <i>leu2 met? trp1 ura3 mre11::kanMX rif1::URA3</i> | This study. |
| YAB2199KL | <i>leu2 met? ura3 mre11::kanMX orc4-min rif1::URA3</i> | This study. |
| YAB2200 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI rad50S:URA3 [pAB2123]</i> | This study. |
| YAB2201 | <i>MAT_a rif2::ADE2</i> | This study. |
| YAB2204 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI::5UASGal4 rad50S:URA3 [pAB2124]</i> | This study. |
| YAB2205 | <i>MAT_a bar1-D lys2::pGAL-ISceI ISceI::URA3::ISceI::5UASGal4 rad50S:URA3 [pAB2123]</i> | This study. |

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| YAB2284 | <i>MATα rif2-min tel1::TRP1 rad50S:URA3</i> | This study. |
| YAB2285 | <i>MATα rif2::ADE2 tel1::TRP1 rad50S:URA3</i> | This study. |
| YAB2286 | <i>MATα tel1::TRP1 rad50S:URA3</i> | This study. |
| YAB2287 | <i>MATα rif2-min rad50S:URA3</i> | This study. |
| YAB2288 | <i>MATα rif2-min rad50S:URA3</i> | This study. |
| YAB2289 | <i>MATα rif2-min rad50S:URA3</i> | This study. |
| YAB2290 | <i>MATα rif2::ADE2 rad50S:URA3</i> | This study. |
| YAB2291 | <i>MATα rif2::ADE2 rad50S:URA3</i> | This study. |
| YAB2292 | <i>MATα rif2::ADE2 rad50S:URA3</i> | This study. |
| YAB2293 | <i>MATα rad50S:URA3</i> | This study. |
| YAB2294 | <i>MATα rad50S:URA3</i> | This study. |
| YAB2295 | <i>MATα his3::Pgal-MIN</i> | This study. |
| YAB2296 | <i>MATα his3::Pgal-MINmut</i> | This study. |
| YAB2297 | <i>MATα his3::Pgal-MIN</i> | This study. |
| YAB2298 | <i>MATα his3::Pgal-MINmut</i> | This study. |
| YAB2310KL | <i>MATα ade2-Δ leu2 ura3 rif1::URA3</i> | This study. |
| YAB2311KL | <i>MATα ade2-Δ leu2 ura3 rif1::URA3</i> | This study. |
| YAB2349KL | <i>MATα ura3 orc4-min rif1::URA3</i> | This study. |
| YAB2351 | <i>MATα rad50S:URA3</i> | This study. |
| YAB2352KL | <i>MATα ura3 orc4-min rif1::URA3</i> | This study. |
| YAB2353KL | <i>MATα ura3 orc4-min rif1::URA3</i> | This study. |
| YAB2355KL | <i>MATα ura3 orc4-min rif1::URA3</i> | This study. |