

**S1 Table:** Table of the yeast strains.

Description of the yeast strains used in this study are listed in this file.

Strain name	Parental strain / background	Genotype	Source
Y1264	W303	<i>MATa ade2- 1 ura3-1 his3-11,15 trp1-1 leu2-3,112 can1-100 Rad5+</i>	Lab stock
Y1/ Y1126	JKM179	<i>MATalpha ho hml::ADE1 hmr::ADE1 ade1-100 leu2-3, 112 lys5, trp1::hisG ura3-52 lys5::ade3::GAL10::HO</i>	Lee et al., 1998
Y1600/ Y117	JKM139	<i>MATa ho hml::ADE1 hmr::ADE1 ade1-100 leu2-3, 112 lys5, trp1::hisG ura3-52 lys5::ade3::GAL10::HO</i>	Lee et al., 1998
Y152	Y117	<i>CDC5-3HA::KANMX6</i>	This study
Y1465	Y117	<i>cdc5-L251W-3HA::KANMX6</i>	This study
Y1466	Y117	<i>cdc5-T238A-3HA::KANMX6</i>	This study
Y1573	Y117	<i>cdc5-T238D-3HA::KANMX6</i>	This study
Y1398	Y117	<i>cdc5-L251W</i>	This study
Y1777	Y117	<i>cdc5-T238A</i>	This study
Y1908	Y1126	<i>cdc5-T238A-3HA::KANMX6</i>	This study
Y1743	Y1264	<i>cdc5-T238A-3HA::KANMX6</i>	This study
Y1973	Y1264	<i>BIR induced chromosome – D8B CFV, Left arm Chr III</i>	This study
Y1979	Y1642	<i>cdc5-T238A BIR induced chromosome – D8B CFV, Left arm Chr III</i>	This study
Y2371	Y1493	<i>cdc5-L251W-3HA::KANMX6, BIR induced chromosome – D8B CFV, Left arm Chr III</i>	This study
Y2147	Y1600	<i>MMS4-3HA::TRP1</i>	This study
Y2206	Y2147 X Y1908	<i>cdc5-T238A-3HA::KANMX6 MMS4-3HA::TRP1</i>	This study
Y2491	Y2147 X Y15	<i>cdc5-L251W-3HA::TRP1, MMS4-3HA::TRP1</i>	This study
Y15	Y1	<i>cdc5-L251W-3HA::TRP1</i>	This Study
Y543	Y117	<i>tel11Δ::KANMX6</i>	This study
Y2155	Y543 X Y1908	<i>cdc5-T238A-3HA::KANMX6 tel11Δ::KANMX6</i>	This study
Y226	Y1	<i>bfa1Δ::KANMX6</i>	This study
Y3535	Y226 X Y1466	<i>cdc5-T238A-3HA::KANMX6 bfa1Δ::KANMX6</i>	This study
Y286	Y117	<i>mad2Δ::KANMX6</i>	This study
Y1574	Y1466 X Y285	<i>cdc5-T238A-3HA::KANMX6 mad2Δ::KANMX6</i>	This study
Y601	Y117	<i>rad9Δ::KANMX6</i>	This study
Y1535	Y601 X Y1466	<i>cdc5-T238A-3HA::KANMX6 rad9Δ::KANMX6</i>	This study
Y2228	Y1600	<i>CDC5-eGFP::KANMX6</i>	This study
Y2230	Y1777	<i>CDC5-T238A-eGFP::KANMX6</i>	This study
Y2232	Y1398	<i>CDC5-L251W-eGFP::KANMX6</i>	This study
Y505	W303	<i>cdc5-1</i> Kind gift from Marco Muzi-Falconi	Lab stock.

Y1327	Y505	<i>cdc5-1 &lt;Ycplac22-TRP-CEN&gt;</i>	This study
Y1329	Y505	<i>cdc5-1 &lt;CDC5-HA-TRP-CEN&gt;</i>	This study
Y1331	Y505	<i>cdc5-1 &lt;cdc5-N209A-HA-TRP-CEN&gt;</i>	This study
Y1333	Y505	<i>cdc5-1 &lt;cdc5-T238A-HA-TRP-CEN&gt;</i>	This study
Y1461	Y505	<i>cdc5-1 &lt;cdc5-T242A-HA-TRP-CEN&gt;</i>	This study
Y101C7, Y101C8	BY4741/42	<i>MAT a, α, hxt13Δ::URA3 mfa1::MFA1pr-HIS3 his3Δ1 ura3Δ0 lyp1Δ leu2Δ0 met15Δ0</i>	Kind gift from Grant W. Brown, Zhang et al, 2006
Y3359, Y3360	Y101C7	<i>cdc5-T238A-3HA::KAN</i>	This study
Y3510, Y3532	Y101C8	<i>sgs1Δ::HPH</i>	This study
Y3529, Y3530	Y3510 X Y3359	<i>sgs1Δ::HPH, cdc5-T238A-3HA::KAN</i>	This study
Y1866	Y1126	<i>sgs1Δ::HPH</i>	This study
Y1895	Y1866 X Y1776	<i>sgs1Δ::HPH, cdc5-T238A-3HA::KAN</i>	This study
Y1893	Y1866 X Y1465	<i>sgs1Δ::HPH, cdc5-L251W-3HA::KAN</i>	This study
Y3536	Y226 XY1465	<i>cdc5-L251W-3HA::KANMX6 bfa1Δ::KANMX6</i>	This study
Y2441	W303	<i>cdc13-1</i> Kind gift from Marco Muzi-Falconi	Lab stock
Y2493	Y2441 X Y1743	<i>cdc5-T238A-3HA::KANMX6, cdc13-1</i>	This study
Y2529	Y2452 X Y1743	<i>rad9 Δ::HIS3 cdc5-T238A-3HA::KANMX6, cdc13-1</i>	This study
Y2452	Y2441	<i>rad9 Δ::HIS3, cdc13-1</i> Kind gift from Marco Muzi-Falconi	Lab stock
Y1642	Y1264	<i>cdc5-T238A</i>	This study
Y1493	Y1264	<i>cdc5-ad</i>	This study