

Supplemental Material to:

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**Multiple phosphorylation of Rad9 by CDK is required for
DNA damage checkpoint activation**

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Table 1. Yeast strains used in this study

Strain	Genotype
SCY249	<i>MATa URA3-52 leu2Δ1 TRP1Δ63 his3Δ200 lys2ΔBgl hom3-10 ade2Δ1 ade8 arg4Δ sml1Δ::TRP</i>
HZY294	SCY249 with <i>rad9-10AP(S11A,S26A,S56A,S83A,T110A,T125A,T143A,T155A,T218A,S248A)::G418</i>
HZY358	<i>MATalpha mrc1Δ::URA</i>
HZY552	SCY249 with <i>rad9Δ::his</i>
HZY584	SCY249 with <i>rad9-11AP(S11A,S26A,S56A,S83A,T110A,T125A,T143A,T155A,T218A,S248A,T348A)::G418</i>
HZY1034	SCY249 with <i>rad9-8AP(S11A,S26A,S56A,S83A,T143A,T348A,S462A,S618A),K1088E::G418</i>
HZY1037	Diploid <i>MATalpha mrc1Δ::URA X MATa rad9-8AP::G418 sml1Δ::TRP</i>
HZY1041	SCY249 with <i>rad9-8AP,K1088E-3HA::G418</i>
HZY1045	Diploid <i>MATalpha mrc1Δ::URA X MATa rad9-K1088E::G418 sml1Δ::TRP</i>
HZY1050	SCY249 with <i>rad9-K1088E::G418</i>
HZY1051	SCY249 with <i>rad9-K1088E-3HA::G418</i>
HZY1060	Diploid <i>MATalpha mrc1Δ::URA X MATa rad9-8AP,K1088E::G418 mrc1Δ::URA sml1Δ::TRP</i>
HZY1091	SCY249 with <i>RAD9-3HA::HIS</i>
HZY1092	SCY249 with <i>rad9-K1088E-3HA::HIS</i>
HZY1100	SCY249 with <i>RAD9-3HA::G418</i>
HZY1102	SCY249 with <i>rad9-8AP-3HA::G418</i>
HZY1125	Diploid <i>MATalpha mrc1Δ::URA X MATa rad9Δ::HIS sml1Δ::TRP</i>
HZY1129	Diploid <i>MATalpha mrc1Δ::URA X MATa rad9-11AP::G418 sml1Δ::TRP</i>
HZY1134	Diploid <i>MATalpha mrc1Δ::URA X MATa rad9-10AP::G418 sml1Δ::TRP</i>
HZY1144	SCY249 with <i>rad9-8AP::G418</i>
HZY1150	<i>MATalpha rad9-8AP::G418 mrc1Δ::URA sml1Δ::TRP</i>
HZY1438	<i>MATalpha SLD3-dpb11-ΔN::G418 dpb11Δ::HYGRO</i>
HZY1440	<i>MATa SLD3-dpb11-ΔN::G418 dpb11Δ::HYGRO RAD9-3HA::HIS</i>
GWY059	SCY249 with <i>rad9-6AP(S462A,T474A,S494A,S507A,S584A,S618A)-3HA::HIS</i>
GWY060	SCY249 with <i>rad9-6AP,K1088E-3HA::HIS</i>
GWY067	SCY249 with <i>rad9-3AP(S462A,T474A,S618A),K1088E-3HA::HIS</i>
GWY069	STY323 with <i>mrc1Δ::G418</i>
GWY074	SCY249 with <i>rad9-2AP-1(S462A,T474A)-3HA::HIS</i>
GWY076	SCY249 with <i>rad9-2AP-1,K1088E-3HA::HIS</i>
GWY077	GWY100 with <i>mrc1Δ::G418 rad9-11AP-3HA::HIS</i>
GWY078	STY327 with <i>mrc1Δ::G418</i>
GWY079	GWY101 with <i>mrc1Δ::G418</i>
GWY080	GWY074 with <i>mrc1Δ::URA</i>
GWY081	GWY076 with <i>mrc1Δ::URA</i>
GWY082	SCY249 with <i>rad9-2AP-2(S462A,S618A)-3HA::HIS</i>
GWY084	SCY249 with <i>rad9-2AP-2,K1088E-3HA::HIS</i>
GWY086	GWY082 with <i>mrc1Δ::URA</i>
GWY087	GWY084 with <i>mrc1Δ::URA</i>
GWY088	GWY067 with <i>mrc1Δ::URA</i>
GWY089	SCY249 with <i>rad9-3AP-3HA::HIS</i>
GWY091	GWY089 with <i>mrc1Δ::URA</i>
GWY092	GWY059 with <i>mrc1Δ::G418</i>
GWY093	GWY060 with <i>mrc1Δ::G418</i>

Strain	Genotype
GWY095 STY301	with <i>mrc1Δ::URA</i>
GWY096 STY302	with <i>mrc1Δ::URA</i>
GWY097 SCY249	with <i>rad9-S462A-3HA::HIS</i>
GWY098 MATa	<i>SLD3-dpb11-K55E::G418 dpb11Δ::HYGRO RAD9-3HA::HIS</i>
GWY099 MATalpha	<i>SLD3-dpb11-K55E::G418 dpb11Δ::HYGRO rad9-K1088E-3HA::HIS</i>
GWY100 SCY249	with <i>rad9-11AP-3HA::HIS</i>
GWY101 SCY249	with <i>rad9-11AP,K1088E-3HA::HIS</i>
GWY105	<i>rad9Δ::URA</i> in HZY1438
STY301 SCY249	with <i>rad9-T348A-3HA::HIS</i>
STY302 SCY249	with <i>rad9-T348A,K1088E-3HA::HIS</i>
STY323 SCY249	with <i>rad9-10AP-3HA::HIS</i>
STY327 SCY249	with <i>rad9-10AP,K1088E-3HA::HIS</i>
STY331 MATa	<i>SLD3-dpb11-ΔN::G418 dpb11Δ::HYGRO rad9-K1088E-3HA::HIS</i>
STY514 MATa	<i>rad9-8AP,K1088E::G418 mrc1Δ::URA sml1Δ::TRP</i>
STY549 MATalpha	<i>rad9-K1088E::G418 mrc1Δ::URA sml1Δ::TRP</i>
STY637 MATalpha	<i>rad9Δ::HIS mrc1Δ::URA sml1Δ::TRP</i>