

Supporting Information

Supplemental Table 1. Yeast strains used in this study

Strain	Genotype	Reference
W303	<i>MATA, ade2-1, leu2-3, ura3, trp1-1, his3-11,15, can1-100, GAL</i>	(11)
A1467	<i>MATA, ade2-1, leu2-3, ura3, trp1-1, his3-11,15, can1-100, GAL, cdc34-2</i>	(11)
A1469	<i>MATA, ade2-1, leu2-3, ura3, trp1-1, his3-11,15, can1-100, GAL, cdc53-1</i>	(11)
A2594	<i>MATA, ade2-1, leu2-3, ura3, trp1-1, his3-11,15, can1-100, GAL, cdc28-4, MET-</i>	(11)
A17188	<i>MATA, ade2-1, leu2-3, ura3, trp1-1, his3-11,15, can1-100, GAL, cdc34-2, cdc28-as1</i>	(11)
GY3706	<i>MATA, his3-11, leu2-3,112, trp1-1, ura3-52, ade2-1, can1-100, GAL+, bar1, EXO84-12MYC::LEU2</i>	This study
DMY349	<i>MATA, his3-11, leu2-3,112, trp1-1, ura3-52, ade2-1, can1-100, GAL+, bar1</i>	(54)
GY3701	<i>Mata, ura3-52, leu2-3,112, his3Δ200, trp1, LA-, exo84Δ::HIS3 (CEN, EXO84, LEU2)</i>	This study
GY3702	<i>Mata, ura3-52, leu2-3,112, his3Δ200, trp1, LA-, exo84Δ::HIS3 (CEN, exo84-5A, LEU2)</i>	This study
GY3703	<i>Mata, ura3-52, leu2-3,112, his3Δ200, trp1, LA-, exo84Δ::HIS3 (CEN, exo84-5E, LEU2)</i>	This study
GY3774	<i>MATA, ade2-1, leu2-3, ura3, trp1-1, his3-11,15, can1-100, GAL, cdc34-2, exo84Δ::HIS3 (CEN, EXO84, LEU2)</i>	This study
GY3775	<i>MATA, ade2-1, leu2-3, ura3, trp1-1, his3-11,15, can1-100, GAL, cdc34-2, exo84Δ::HIS3 (CEN, EXO84-5E, LEU2)</i>	This study
GY3776	<i>MATA, ade2-1, leu2-3, ura3, trp1-1, his3-11,15, can1-100, GAL, cdc34-2, exo84Δ::HIS3 (CEN, EXO84-5E, LEU2)</i>	This study
GY3846	<i>Mata, ura3-52, leu2-3,112, his3Δ200, trp1, LA-, exo84Δ::HIS3 (CEN, EXO84, LEU2), EXO70-GFP::URA3</i>	This study
GY3847	<i>Mata, ura3-52, leu2-3,112, his3Δ200, trp1, LA-, exo84Δ::HIS3 (CEN, exo84-5A, LEU2), EXO70-GFP::URA3</i>	This study
GY3848	<i>Mata, ura3-52, leu2-3,112, his3Δ200, trp1, LA-, exo84Δ::HIS3 (CEN, exo84-5E, LEU2), EXO70-GFP::URA3</i>	This study
GY3791	<i>MATA sec3-2 ura3-52 leu2-3,112, sec3-2, exo84Δ::KanMX6, (CEN, EXO84, LEU2)</i>	This study
GY3792	<i>MATA sec3-2 ura3-52 leu2-3,112, sec3-2, exo84Δ::KanMX6, (CEN, exo84-5A, LEU2)</i>	This study
GY3793	<i>MATA sec3-2 ura3-52 leu2-3,112, sec3-2, exo84Δ::KanMX6, (CEN, exo84-5E, LEU2)</i>	This study

Supplemental Table 2. Plasmids used in this study

Plasmid	Description	Reference
pG338	<i>pRS315-EXO84, LEU2, CEN</i>	(68)
pG1621	<i>pRS315-EXO84-5A (T28A, S31A, S291A, S482A, S716A), LEU2, CEN</i>	This study
pG1623	<i>pRS315-EXO84-5E (T28E, S31E, S291E, S482E, S716E), LEU2, CEN</i>	This study
pg778	<i>pRS305-EXO84-12MYC, LEU2, integration into EXO84 by cutting with BglII</i>	This study
pg465	<i>pGeX2T-EXO84</i>	This study
pg1849	<i>pGeX2T-exo84-5A (T28A, S31A, S291A, S482A, S716A)</i>	This study
pNB880	<i>pRS306-EXO70-GFP, URA3, integration into EXO70 gene by cutting with BstEII</i>	Peter Novick lab

FIGURE LEGENDS

Supplemental Figure S1. Mutation of single Cdk1 consensus site did not affect Exo84 phosphorylation by Cln2-Cdk1. *In vitro* Cln2-Cdk1 kinase assays were performed with wild type Exo84 and *exo84-A* mutants, which lack one of the five Cdk1 phosphorylation sites (T²⁸, S³¹, S²⁹¹, S⁴⁸², S⁷¹⁶). The phosphorylation level of *Exo84-A* mutants by Cln2–Cdk1 is similar to that of wild type Exo84. GST-Exo84 and GST-*exo84-A* mutants were purified from *E. coli* and incubated with Cln2–Cdk1 in the presence of γ -[³²P]ATP. Exo84 phosphorylation was detected by autoradiography (top). The Corresponding Coomassie blue-stained gel is shown on the bottom.

Fig. S1

