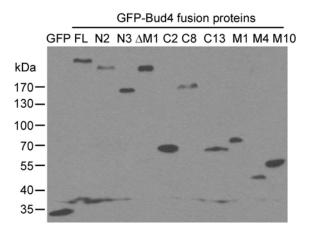
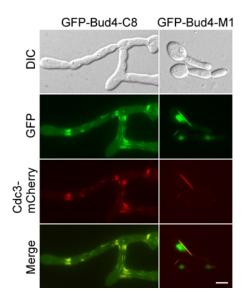
## **Supplemental Material**



## FIG S1 Expression of Bud4 segments in yeast cells.

Cells of strain YEF473A carrying pBG2 (GFP, vector) or pBG2-BUD4 segments were grown in SC-Ura medium. Cell lysates prepared from the yeast strains were separated by 7.5% SDS-PAGE and immunoblotted with an anti-GFP antibody. Molecular weight of GFP-fusion proteins: Bud4-FL (full-length, a.a. 1-1447, 186.6 kDa), Bud4-N2 (a.a. 1-1066, 144.7 kDa), Bud4-N3 (a.a. 1-622, 95.8 kDa), Bud4-ΔM1 (a.a. 1-622 plus 881-1447, 158.2 kDa), Bud4-C2 (a.a. 1067-1447, 69.3 kDa), Bud4-C8 (a.a. 623-1447, 118.1 kDa), Bud4-C13 (a.a. 1082-1447, 67.7 kDa), Bud4-M1 (a.a. 623-880, 55.8 kDa), Bud4-M4 (a.a. 623-774, 44.1 kDa), and Bud4-M10 (a.a. 623-804, 47.4 kDa). GFP (238 a.a. plus linker, 29.6 kDa). Note: The GFP-Bud4-M1 segment reproducibly migrated slower than predicted.



 $FIG~S2~Co\mbox{-localization of overexpressed GFP-Bud4-C8 and GFP-Bud4-M1 with the disorganized septins.}$ 

Cells of strain JGY2923 ( $bud4\Delta$  CDC3-mCherry:LEU2) carrying plasmid pGGFP316-BUD4-C8 and pGGFP316-BUD4-M1 were grown on SRG-Ura plate at 30°C for 20 hr. Images were taken by two-color fluorescence microscopy. Bar, 5  $\mu$ m.

TABLE S1 Yeast strains used in this study

Strain	Genotype	Source
JMY314.1-4b	α. leu2-3,112 ura3-1 his3-11,15 trp1-1 ade2-1 can1-100	1
	(W303 background)	
YEF473A	a his3-Δ200 leu2-Δ1 lys2-801 trp1-Δ63 ura3-52	2
YEF473B	$\alpha$ his3- $\Delta$ 200 leu2- $\Delta$ 1 lys2-801 trp1- $\Delta$ 63 ura3-52	2
YEF1238	As YEF473A except gin4Δ::TRP1	E. Bi
YEF1342	As YEF473A except cla4Δ::HIS3	E. Bi
YEF2218	As YEF473B except cdc12-6	E. Bi
YEF3570	As YEF473A except <i>bud3</i> Δ:: <i>HIS3</i>	J. R. Pringle
YEF3572	As YEF473A except <i>bud4</i> Δ:: <i>HIS3</i>	J. R. Pringle
YEF4603	As YEF473B except shs1Δ::kanMX	E. Bi
JGY781	As YEF473B except bud3Δ::HIS3 bud4Δ::HIS3	This study
JGY2482	As JMY314.1-4b except ade3Δ::kanMX	This study
JGY2737	As YEF473B except bud4Δ::TRP1 shs1Δ::kanMX	This study
JGY2903	As JGY2482 except iqg1\Delta::His3MX6	This study
JGY2923	As YEF473A except bud4Δ::HIS3 CDC3-mCherry:LEU2	This study
JGY2966	As YEF473A except bud4Δ::HIS3 CDC3-mCherry:LEU2	This study
	SPC42-mCherry:TRP1	
JGY3035	As YEF473B except bud3Δ::HIS3 shs1Δ::kanMX	Segregants from the cross
		between YEF3570 and
		YEF4603.
JGY3040	As YEF473B except bud3Δ::HIS3 cdc12-6	Segregants from the cross
		between YEF3570 and
		YEF2218.
JGY3042	As YEF473B except bud4Δ::HIS3 cdc12-6	Segregants from the cross
		between YEF3572 and
ICO 4 A	1. 2. 200 1. 2. 2. 10. 1. 2. 2. 2. 2. 14. 12.	YEF2218.
pJ69-4A	a his3-Δ200 leu2-3,112 trp1-901 ura3-52 gal4Δ gal80Δ	3
160.4	LYS2::GAL1-HIS3 GAL2-ADE2 met2::GAL7-lacZ	2
pJ69-4α	α. his3-Δ200 leu2-3,112 trp1-901 ura3-52 gal4Δ gal80Δ	3
	LYS2::GAL1-HIS3 GAL2-ADE2 met2::GAL7-lacZ	

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- 3. **James P, Halladay J, Craig EA.** 1996. Genomic libraries and a host strain designed for highly efficient two-hybrid selection in yeast. Genetics **144:**1425-1436.