

**Table S1: Yeast strains**

Strain	Genotype*	Source/Reference
RWS116	MATa <i>cln1::HisG cln2Δ cln3::HisG YipLac204-MET-CLN2::TRP1 ura3 his3-11.15 ade2-1 can1-100</i>	[1]
RWS1028	<i>Δbem2::G418</i>	[2]
RWS1035	<i>Δbem2::G418 pCDC42-myc-GFP-CDC42::URA3 (RWC108)</i>	[2]
RWS1421	<i>pCDC42-myc-GFP-CDC42::URA3 (RWC108)</i>	[2]
RWS1045	<i>pBem1-Bem1-GFP::URA3 (RWC138)</i>	This study
RWS 147	<i>pGal-HA-RDI1::LEU pCDC42-myc-GFP-CDC42::LEU</i>	This study
RWS 1758	<i>pRDI1-RDI1-mRFPRuby::LEU (RWC 856) pCDC42-myc-GFP-CDC42::URA3 (RWC 108)</i>	This study
RWS 1739	<i>Δbem1::G418 pABP140-BEM1-GFP::LEU (RWC 899)</i>	This study
RWS 1740	<i>Δbem1::G418 pCDC24-BEM1-GFP::LEU (RWC 900)</i>	This study
RWS 1036	<i>pCDC42-myc-GFP-CDC42G60A::URA3</i>	[2]

\*all strains were made in RWS 116 background

## References

1. Gulli MP, Jaquenoud M, Shimada Y, Niederhäuser G, Wiget P, et al. (2000) Phosphorylation of the Cdc42 exchange factor Cdc24 by the PAK-like kinase Cla4 may regulate polarized growth in yeast. *Mol Cell* 6: 1155-1167
2. Freisinger T, Klünder B, Johnson J, Müller N, Pichler G, et al. (2013) Establishment of a robust single axis of cell polarity by coupling multiple positive feedback loops. *Nat Commun* 4: 1807