

Table S2 Plasmids used in this study

Plasmid	Description	Reference
pPHY795	<i>MET3_{pro}-RAS2^{Val19}</i> in pRS415 (<i>CEN, LEU2</i>)	(Ramachandran <i>et al.</i> 2011)
pPHY796	<i>MET3_{pro}-RAS2^{Val19}</i> in pRS416 (<i>CEN, URA3</i>)	(Ramachandran <i>et al.</i> 2011)
pPHY921	<i>RAS2^{Val19}</i> in pRS316	(Ramachandran <i>et al.</i> 2011)
pPHY2203	<i>CUP1_{pro}-TPK1-HA₃</i> (<i>URA3</i>)	(Deminoff <i>et al.</i> 2006)
pPHY2659	DHH1-GFP (<i>CEN, URA3</i>)	Dr. Tien-Hsien Chang
pDHH1018		
pPHY2915	<i>CUP1_{pro}-TPK2-HA₃</i> (<i>URA3</i>)	(Deminoff <i>et al.</i> 2006)
pPHY2916	<i>CUP1_{pro}-TPK3-HA₃</i> (<i>URA3</i>)	(Deminoff <i>et al.</i> 2006)
pPHY3360	<i>PAT1_{pro}-Myc-PAT1-AA</i> (<i>CEN, HIS3</i>)	(Ramachandran <i>et al.</i> 2011)
pPHY3362	<i>PAT1_{pro}-Myc-PAT1-SS</i> (<i>CEN, HIS3</i>)	(Ramachandran <i>et al.</i> 2011)
pPHY3506	<i>PAT1_{pro}-GFP-PAT1-SS</i> (<i>CEN, HIS3</i>)	(Ramachandran <i>et al.</i> 2011)
pPHY3507	<i>PAT1_{pro}-GFP-PAT1-AA</i> (<i>CEN, HIS3</i>)	(Ramachandran <i>et al.</i> 2011)
pPHY3509	<i>PAT1_{pro}-GFP-PAT1-EE</i> (<i>CEN, HIS3</i>)	(Ramachandran <i>et al.</i> 2011)
pPHY3660	<i>EDC3-mCherry</i> (<i>CEN, URA3</i>)	(Buchan <i>et al.</i> 2011)
(pRP1574)		
pPHY3661	<i>PAB1-GFP</i> (<i>URA3</i>)	(Buchan <i>et al.</i> 2008)
(pRP1362)		
pPHY3665	<i>PAB1-GFP, EDC3-mCherry</i> (<i>CEN, URA3</i>)	(Buchan <i>et al.</i> 2011)
(pRP1657)		
pPHY3667	<i>PAB1-GFP, DCP2-mCherry</i> (<i>CEN, TRP1</i>)	(Buchan <i>et al.</i> 2011)
(pRP1660)		
pPHY3671	<i>EDC3-mCherry; PBP1-GFP</i> (<i>CEN, TRP1</i>)	(Swisher and Parker 2010)
(pRP1944)		
pPHY3685	<i>PAT1_{pro}-GFP-Pat1-SS</i> (<i>HIS3</i>)	This study
pPHY3691	<i>PAT1_{pro}-GFP-Pat1-AA</i> (<i>HIS3</i>)	This study
pPHY3693	<i>PAT1_{pro}-GFP-Pat1-EE</i> (<i>HIS3</i>)	This study
pPHY3702	<i>ADH2_{pro}-H2B-mCherry</i> (<i>CEN, LEU2</i>)	Dr. James Hopper
pOE79		

Literature Cited

- Buchan, J. R., D. Muhlrud and R. Parker, 2008 P bodies promote stress granule assembly in *Saccharomyces cerevisiae*. *J Cell Biol* 183: 441-455.
- Buchan, J. R., J. H. Yoon and R. Parker, 2011 Stress-specific composition, assembly and kinetics of stress granules in *Saccharomyces cerevisiae*. *J Cell Sci* 124: 228-239.
- Coller, J., and R. Parker, 2005 General translational repression by activators of mRNA decapping. *Cell* 122: 875-886.
- Decker, C. J., D. Teixeira and R. Parker, 2007 Edc3p and a glutamine/asparagine-rich domain of Lsm4p function in processing body assembly in *Saccharomyces cerevisiae*. *J Cell Biol* 179: 437-449.
- Deminoff, S. J., S. C. Howard, A. Hester, S. Warner and P. K. Herman, 2006 Using substrate-binding variants of the cAMP-dependent protein kinase to identify novel targets and a kinase domain important for substrate interactions in *Saccharomyces cerevisiae*. *Genetics* 173: 1909-1917.
- Mazon, M. J., M. M. Behrens, E. Morgado and F. Portillo, 1993 Low activity of the yeast cAMP-dependent protein kinase catalytic subunit Tpk3 is due to the poor expression of the TPK3 gene. *European journal of biochemistry / FEBS* 213: 501-506.
- Pan, X., and J. Heitman, 2002 Protein kinase A operates a molecular switch that governs yeast pseudohyphal differentiation. *Mol Cell Biol* 22: 3981-3993.
- Ramachandran, V., K. H. Shah and P. K. Herman, 2011 The cAMP-dependent protein kinase signaling pathway is a key regulator of P body foci formation. *Mol Cell* 43: 973-981.
- Swisher, K. D., and R. Parker, 2010 Localization to, and effects of Pbp1, Pbp4, Lsm12, Dhh1, and Pab1 on stress granules in *Saccharomyces cerevisiae*. *PLoS One* 5: e10006.
- Teixeira, D., and R. Parker, 2007 Analysis of P-body assembly in *Saccharomyces cerevisiae*. *Mol Biol Cell* 18: 2274-2287.
- Valay, J. G., M. Simon and G. Faye, 1993 The kin28 protein kinase is associated with a cyclin in *Saccharomyces cerevisiae*. *Journal of molecular biology* 234: 307-310.