

Supplementary Table 7: *S. pombe* strains used in this study

Strain	Genotype	Reference/Source
JB22	972 <i>h</i> ⁻	1/P. Nurse
JB23	<i>cdc25-22 h</i> ⁻	2/P. Nurse
JB356	<i>cdc25-22 sep1Δ::ura4 h</i> ⁻	3/M. Sipiczki
JB25	<i>cdc10-129 h</i> ⁻	4/P. Nurse
JB355	<i>sep1Δ::ura4 h</i> ⁻	3/M. Sipiczki
JB348	<i>leu1-32 h</i> ⁻ + pREP3X- <i>sep1</i> ^a	this study
JB295	<i>ace2Δ::kanMX6 ade6 h</i> ^{-b}	this study
JB342	<i>leu1-32 h</i> ⁻ + pREP3X- <i>ace2</i> ^a	this study
JB292	<i>cdc10-C4 h</i> ⁺	5/P. Nurse

^a We constructed overexpression strains using a two-step procedure: the gene of interest was first amplified by PCR using a gene-specific primer set and then cloned into the pPCR-Script vector (Stratagene). The open reading frame was cut out of pPCR-Script by digestion with *Bam*HI and *Xho*I and ligated into *Bam*HI-*Xho*I-digested pREP3X vector⁶. Strain *leu1-32 h*⁻ was then transformed with the overexpression plasmids using a lithium acetate-based procedure⁷ and leucine prototrophic colonies were selected.

^b Deletion of the entire open reading frame in a diploid strain was performed using a PCR-based approach as described⁷.

We used standard media and methods⁸ and cultured cells in EMM medium at temperatures specified in the Methods section.

References

1. Leupold, U. Genetical methods for *S. pombe*. *Methods Cell Physiol* **4**, 169-177 (1970).
2. Thuriaux, P., Sipiczki, M. & Fantes, P.A. Genetical analysis of a sterile mutant by protoplast fusion in the fission yeast *S. pombe*. *J Gen Microbiol* **116**, 525-528 (1980).
3. Zilahi, E., Salimova, E., Simanis, V. & Sipiczki, M. The *S. pombe sep1* gene encodes a nuclear protein that is required for periodic expression of the *cdc15* gene. *FEBS Lett.* **481**, 105-108 (2000).
4. Nurse, P., Thuriaux, P. & Nasmyth, K. Genetic control of the cell division cycle in the fission yeast *Schizosaccharomyces pombe*. *Mol Gen Genet* **146**, 167-178 (1976).
5. McNerny, C.J., Kersey, P.J., Creanor, J. & Fantes, P.A. Positive and negative roles for *cdc10* in cell cycle gene expression. *Nucleic Acids Res* **23**, 4761-4768 (1995).
6. Maundrell, K. Thiamine-repressible expression vectors pREP and pRIP for fission yeast. *Gene* **123**, 127-130 (1993).
7. Bähler, J. et al. Heterologous modules for efficient and versatile PCR-based gene targeting in *S. pombe*. *Yeast* **14**, 943-951 (1998).
8. Moreno, S., Klar, A. & Nurse, P. Molecular genetic analysis of fission yeast *S. pombe*. *Methods Enzymol* **194**, 795-823 (1991).