

**SUPPLEMENTAL MATERIALS**

**Supplemental Table S1.** *S. pombe* strains used in this study

Strain	Genotype	Source/reference
JW703	<i>h<sup>-</sup> myp2-Δ2::kanMX6 ade6-M210 leu1-32 ura4-D18</i>	Lab stock
JW729	<i>h<sup>+</sup> ade6-M210 leu1-32 ura4-D18</i>	Lab stock
JW739	<i>h<sup>-</sup> ade6-M216 leu1-32 ura4-D18</i>	Lab stock
JW1825	<i>h<sup>+</sup> blt1Δ::kanMX4 ade6 leu1-32 ura4-D18</i>	Kim <i>et al.</i> , 2010
JW1826	<i>h<sup>+</sup> gef2Δ::kanMX4 ade6 leu1-32 ura4-D18</i>	Kim <i>et al.</i> , 2010
JW2255	<i>h<sup>+</sup> mid1-366 ade6-M210 leu1-32 ura4-D18</i>	This study
JW2556	<i>h<sup>-</sup> ade6-M210 leu1-32</i>	This study
JW2603	<i>h<sup>-</sup> mid1(1-580)-6His-mECitrine-kanMX6 ade6-M210 leu1-32 ura4-D18</i>	This study
JW2858	<i>gef2Δ::kanMX4 myp2-Δ2::kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW2923	<i>myo2-Δ2::kanMX6 rlc1-tdTomato-natMX6 leu1<sup>+</sup>::GFP-psy1 ade6 ura4</i>	This study
JW2948	<i>h<sup>+</sup> gef2Δ::hphMX6 myp2-Δ2::kanMX6 rlc1-tdTomato-natMX6 leu1<sup>+</sup>::GFP-psy1 ade6 ura4</i>	This study
JW2972	<i>cdc11-136 gef2Δ::hphMX6 ade6 leu1-32 ura4-D18</i>	This study
JW2997	<i>h<sup>+</sup> gef2-mECitrine-natMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3009	<i>gef2Δ::hphMX6 sid2-250 ade6 leu1-32 ura4-D18</i>	This study
JW3066	<i>plo1.ts18::ura4<sup>+</sup> kan<sup>s</sup>-mYFP-myo2 sad1-CFP-kanMX6 ade6 leu1-32 ura4</i>	This study
JW3067	<i>plo1.ts18::ura4<sup>+</sup> gef2Δ::hphMX6 kan<sup>s</sup>-mYFP-myo2 sad1-CFP-kanMX6 ade6 leu1-32 ura4</i>	This study
JW3076	<i>plo1.ts18::ura4<sup>+</sup> kan<sup>s</sup>-mYFP-4Gly-cdc15 Patb2-CFP-atb2 ade6 leu1-32 ura4-D18</i>	This study
JW3077	<i>h<sup>-</sup> gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> kan<sup>s</sup>-mYFP-4Gly-cdc15 Patb2-CFP-atb2 ade6 leu1-32 ura4-D18</i>	This study
JW3078	<i>h<sup>-</sup> gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> ade6 leu1-32 ura4-D18</i>	This study
JW3079	<i>h<sup>-</sup> plo1.ts18::ura4<sup>+</sup> ade6 leu1-32 ura4-D18</i>	This study
JW3184	<i>h<sup>-</sup> gef2Δ::hphMX6 ade6 leu1-32</i>	This study
JW3185	<i>gef2Δ::hphMX6 kan<sup>s</sup>-mYFP-4Gly-cdc15 Patb2-CFP-atb2 ade6 leu1-32</i>	This study
JW3186	<i>kan<sup>s</sup>-mYFP-4Gly-cdc15 Patb2-CFP-atb2 ade6 leu1-32</i>	This study
JW3204	<i>h<sup>-</sup> gef2-13Myc-hphMX6 ade6-M210 leu1-32 ura4-D18</i>	This study
JW3206	<i>h<sup>-</sup> mid1-13Myc-hphMX6 ade6-M210 leu1-32 ura4-D18</i>	This study
JW3229	<i>gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> 41nmt1-GFP-CHD (rng2)-leu1<sup>+</sup> rlc1-tdTomato-natMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3230	<i>plo1.ts18::ura4<sup>+</sup> 41nmt1-GFP-CHD (rng2)-leu1<sup>+</sup> rlc1-tdTomato-natMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3237	<i>gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> kanMX6-Purg1-mYFP-mid1 ade6 leu1-32 ura4-D18</i>	This study
JW3242	<i>gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> ade6 leu1-32 ura4-D18 + pAP146 Pmid1-mid1-GFP integrated at leu1<sup>+</sup></i>	This study
JW3254	<i>h<sup>+</sup> mid1-13Myc-kanMX6 ade6-M210 leu1-32 ura4-D18</i>	This study
JW3255	<i>mid1-13Myc-kanMX6 gef2-mECitrine-natMX6 ade6 leu1-32 ura4-D18</i>	This study

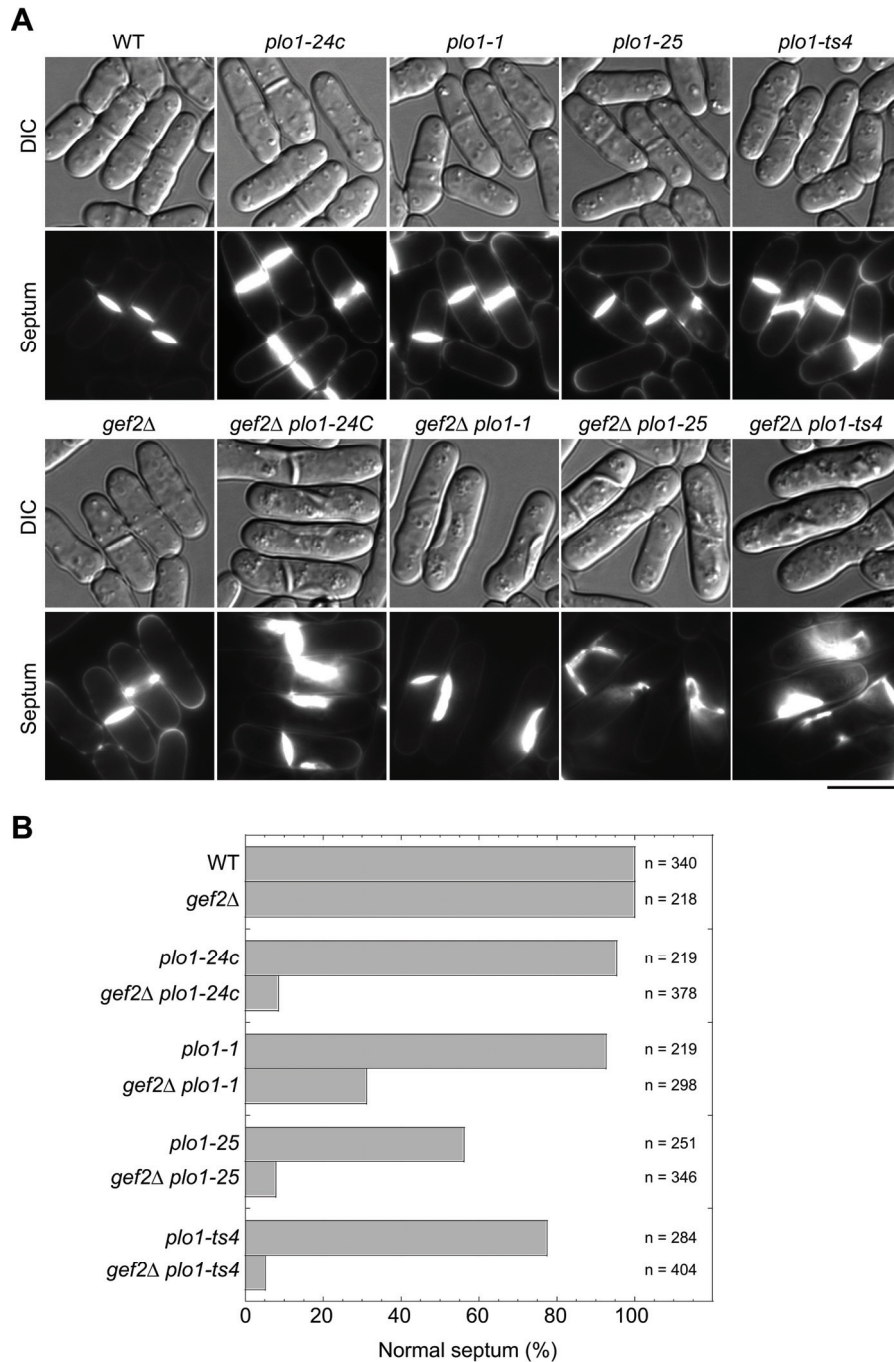
JW3276	<i>mid1-13Myc-kanMX6 ade6 leu1-32</i>	This study
JW3277	<i>gef2Δ::hphMX6 mid1-13Myc-kanMX6 ade6 leu1-32</i>	This study
JW3281	<i>gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> mid1-mECitrine-kanMX6 Patb2-CFP-atb2 ade6 leu1-32 ura4-D18</i>	This study
JW3323	<i>mid1-mECitrine-kanMX6 ade6 leu1-32</i>	Laporte <i>et al.</i> , 2011
JW3324	<i>gef2Δ::hphMX6 mid1-mECitrine-kanMX6 ade6 leu1-32</i>	This study
JW3333	<i>cdr2Δ::kanMX6 gef2-mECitrine-natMX6 mid1-13Myc-hphMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3364	<i>h<sup>+</sup> kanMX6-P81nmt1-mECitrine-mid1 ade6-210 leu1-32 ura4-D18</i>	This study
JW3383	<i>plo1.ts18::ura4<sup>+</sup> gef2Δ::hphMX6 mid1-mECitrine-kanMX6 Patb2-CFP-atb2 ade6 leu1-32 ura4-D18 + pAP146 Pmid1-mid1-GFP integrated at leu1<sup>+</sup></i>	This study
JW3426	<i>gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> mid1-cdr2-mEGFP-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3497	<i>h<sup>+</sup> gef2(Δ211-1101)-mECitrine-kanMX6 ade6-M216 leu1-32 ura4-D18</i>	This study
JW3498	<i>h<sup>+</sup> gef2(Δ211-443)-mECitrine-natMX6 ade6-M216 leu1-32 ura4-D18</i>	This study
JW3546	<i>gef2Δ::hphMX6 kan<sup>s</sup>-mYFP-myo2 sad1-CFP-kanMX6 ade6 leu1-32</i>	This study
JW3547	<i>kan<sup>s</sup>-mYFP-myo2 sad1-CFP-kanMX6 ade6 leu1-32</i>	Lab stock
JW3550	<i>gef2Δ::hphMX6 plo1-24C ade6 leu1-32 ura4-D18</i>	This study
JW3551	<i>gef2Δ::hphMX6 plo1-1 ade6 leu1-32 ura4-D18</i>	This study
JW3552	<i>gef2Δ::hphMX6 plo1-25 ade6 leu1-32 ura4-D18</i>	This study
JW3553	<i>gef2Δ::hphMX6 plo1.ts4::ura4<sup>+</sup> ade6 leu1-32 ura4-D18</i>	This study
JW3554	<i>41nmt1-GFP-CHD (rng2)-leu1<sup>+</sup> rlc1-tdTomato-natMX6 ade6 leu1-32</i>	This study
JW3555	<i>gef2Δ::hphMX6 41nmt1-GFP-CHD (rng2)-leu1<sup>+</sup> rlc1-tdTomato-natMX6 ade6 leu1-32</i>	This study
JW3558	<i>gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> mid1-mECitrine-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3559	<i>plo1.ts18::ura4<sup>+</sup> mid1-mECitrine-kanMX6 ade6 leu1-32 ura4-D18 his2</i>	This study
JW3560	<i>gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> mid1-mEGFP-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3567	<i>mid1Δ::ura4<sup>+</sup> gef2Δ::kanMX4 ade6 leu1-32 ura4-D18 + pAP159 Pmid1 Helix* mid1-GFP integrated at leu1<sup>+</sup></i>	This study
JW3568	<i>mid1Δ::ura4<sup>+</sup> gef2Δ::kanMX4 ade6 leu1-32 ura4-D18 + pAP167 Pmid1 NLS* mid1-GFP integrated at leu1<sup>+</sup></i>	This study
JW3569	<i>mid1Δ::ura4<sup>+</sup> gef2Δ::kanMX4 ade6 leu1-32 ura4-D18 + pAP144 Pmid1 Cter-GFP integrated at leu1<sup>+</sup></i>	This study
JW3570	<i>mid1Δ::ura4<sup>+</sup> gef2Δ::kanMX4 ade6 leu1-32 ura4-D18 + pSM26 Pmid1 GFP-Nter integrated at leu1<sup>+</sup></i>	This study
JW3573	<i>rlc1-tdTomato-natMX6 leu1<sup>+</sup>::GFP-psy1 ade6 ura4</i>	This study
JW3574	<i>gef2Δ::hphMX6 rlc1-tdTomato-natMX6 leu1<sup>+</sup>::GFP-psy1 ade6</i>	This study

JW3575	<i>ura4</i> <i>gef2Δ::hphMX6 cdr2Δ::kanMX6 mid1-mECitrine-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3576	<i>gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> cdr2Δ::kanMX6 mid1-mECitrine-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3577	<i>plo1.ts18::ura4<sup>+</sup> cdr2Δ::kanMX6 mid1-mECitrine-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3578	<i>cdr2Δ::kanMX6 mid1-mECitrine-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3623	<i>mid1Δ::ura4<sup>+</sup> gef2-13Myc-hphMX6 ade6 leu1-32 ura4-D18</i> + pSM26 Pmid1 GFP-Nter integrated at <i>leu1<sup>+</sup></i>	This study
JW3624	<i>mid1Δ::ura4<sup>+</sup> gef2-13Myc-hphMX6 ade6 leu1-32 ura4-D18</i> + pAP144 Pmid1 Cter-GFP integrated at <i>leu1<sup>+</sup></i>	This study
JW3628	<i>mid1Δ::ura4<sup>+</sup> rlc1-tdTomato-natMX6 ade6 leu1-32 ura4-D18</i> + pSM26 Pmid1 GFP-Nter integrated at <i>leu1<sup>+</sup></i>	This study
JW3629	<i>mid1Δ::ura4<sup>+</sup> gef2Δ::hphMX6 rlc1-tdTomato-natMX6 ade6 leu1-32 ura4-D18</i> + pSM26 Pmid1 GFP-Nter integrated at <i>leu1<sup>+</sup></i>	This study
JW3647	<i>cdr2Δ::kanMX6 mid1Δ::ura4<sup>+</sup> ade6 leu1-32 ura4-D18</i> + pSM26 Pmid1 GFP-Nter integrated at <i>leu1<sup>+</sup></i>	This study
JW3670	<i>gef2Δ::hphMX6 mid1(1-580)-6His-mECitrine-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW3705	<i>plo1.ts18::ura4<sup>+</sup> mid1Δ::kanMX4 ade6 leu1-32 ura4-D18</i> + pMA23 [pJK148-Pmid1-mid1(Δ300-350)-4GFP-stopnmt] integrated at <i>leu1<sup>+</sup></i>	This study
JW3721	<i>gef2Δ::kanMX4 mid1Δ::ura4<sup>+</sup> ade6 leu1-32 ura4-D18</i> + pAP163 Pmid1 Helix* NLS* mid1-GFP integrated at <i>leu1<sup>+</sup></i>	This study
JW3722	<i>plo1-24C ade6 leu1-32 ura4-D18</i>	This study
JW3723	<i>plo1-1 ade6 leu1-32 ura4-D18</i>	This study
JW3724	<i>plo1-25 ade6 leu1-32 ura4-D18</i>	This study
JW3825	<i>h<sup>-</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2 ade6-M216 leu1-32 ura4-D18</i>	This study
JW3826	<i>h<sup>-</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2(Δ1-956) ade6-M216 leu1-32 ura4-D18</i>	This study
JW3827	<i>h<sup>-</sup> kanMX6-Pgef2-mECitrine-gef2(Δ1-443) ade6-M216 leu1-32 ura4-D18</i>	This study
JW3828	<i>h<sup>-</sup> kanMX6-Pgef2-mECitrine-gef2(Δ1-600) ade6-M216 leu1-32 ura4-D18</i>	This study
JW3829	<i>mid1-ΔF::ura4<sup>+</sup> gef2-mECitrine-natMX6 ade6 leu1-32 ura4-D18</i> + pMA23 [pJK148-Pmid1-mid1(Δ300-350)-13Myc-hphMX6] integrated at <i>leu1</i> locus (but not <i>leu1<sup>+</sup></i> )	This study
JW3830	<i>mid1-ΔF::ura4<sup>+</sup> gef2-mECitrine-natMX6 ade6 leu1-32 ura4-D18</i> + pMA21 [pJK148-Pmid1-mid1(Δ400-450)-13Myc-hphMX6] integrated at <i>leu1</i> locus (but not <i>leu1<sup>+</sup></i> )	This study
JW3843	<i>plo1.ts18::ura4<sup>+</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2 ade6 leu1-32 ura4-D18</i>	This study
JW3846	<i>cdr2Δ::kanMX6 kanMX6-Pgef2- mECitrine-4Gly-gef2 Patb2-CFP-atb2 ade6 leu1-32 ura4-D18</i>	This study

JW3848	<i>blt1Δ::kanMX4 kanMX6-Pgef2-mECitrine-4Gly-gef2 Patb2-CFP-atb2 ade6 leu1-32 ura4-D18</i>	This study
JW3852	<i>kanMX6-Pgef2-mECitrine-4Gly-gef2 Patb2-CFP-atb2 ade6 leu1-32 ura4-D18</i>	This study
JW3853	<i>kanMX6-Pgef2-mECitrine-4Gly-gef2 kan<sup>s</sup>-Pmyo2-mCFP-myo2 Patb2-CFP-atb2 ade6 leu1-32 ura4-D18</i>	This study
JW3856	<i>plo1.ts18::ura4<sup>+</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2(Δ1-956) ade6 leu1-32 ura4-D18</i>	This study
JW3857	<i>plo1.ts18::ura4<sup>+</sup> kanMX6-Pgef2-mECitrine-gef2(Δ1-443) ade6 leu1-32 ura4-D18</i>	This study
JW3858	<i>plo1.ts18::ura4<sup>+</sup> kanMX6-Pgef2-mECitrine -gef2(Δ1-600) ade6 leu1-32 ura4-D18</i>	This study
JW3949	<i>gef2Δ::hphMX6 mid1-366 ade6 leu1-32 ura4-D18</i>	This study
JW3950	<i>gef2Δ::hphMX6 kanMX6-P81nmt1-mECitrine-mid1 ade6 leu1-32 ura4-D18</i>	This study
JW3972	<i>h<sup>-</sup> gef2Δ::hphMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4226	<i>h<sup>+</sup> kanMX6-Pgef2-tdTomato-4Gly-gef2 ade6 leu1-32 ura4-D18</i>	This study
JW4231	<i>rlc1-tdTomato-natMX6 mid1-mEGFP-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4232	<i>gef2Δ::hphMX6 rlc1-tdTomato-natMX6 mid1-mEGFP-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4233	<i>plo1.ts18::ura4<sup>+</sup> rlc1-tdTomato-natMX6 mid1-mEGFP-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4234	<i>gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> rlc1-tdTomato-natMX6 mid1-mEGFP-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4235	<i>kanMX6-Pgef2-tdTomato-4Gly-gef2 plo1-3GFP-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4236	<i>kanMX6-Pgef2-tdTomato-4Gly-gef2 mid1-mEGFP-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4237	<i>blt1Δ::kanMX4 kanMX6-Pgef2-mEGFP-4Gly-gef2 sad1-tdTomato-natMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4238	<i>h<sup>-</sup> gef2(Δ211-443)-Tgef2-kanMX6 ade6-M216 leu1-32 ura4-D18</i>	This study
JW4241	<i>plo1.ts18::ura4<sup>+</sup> gef2(Δ211-443)-Tgef2-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4307	<i>h<sup>+</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2(Δ211-1101)-T<sub>ADHI</sub>-natMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4308	<i>h<sup>+</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2(Δ444-1101)-T<sub>ADHI</sub>-natMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4309	<i>h<sup>+</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2(Δ601-1101)-T<sub>ADHI</sub>-natMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4310	<i>h<sup>+</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2(Δ957-1101)-T<sub>ADHI</sub>-hphMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4312	<i>plo1.ts18::ura4<sup>+</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2(Δ211-1101)-T<sub>ADHI</sub>-natMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4313	<i>plo1.ts18::ura4<sup>+</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2(Δ444-1101)-T<sub>ADHI</sub>-natMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4314	<i>plo1.ts18::ura4<sup>+</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2(Δ601-</i>	This study

JW4315	<i>1101)-T<sub>ADHI</sub>-natMX6 ade6 leu1-32 ura4-D18 plo1.ts18::ura4<sup>+</sup> kanMX6-Pgef2-mECitrine-4Gly-gef2(Δ957-1101)-T<sub>ADHI</sub>-hphMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4317	<i>plo1.ts18::ura4<sup>+</sup> mid1-13Myc-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
JW4318	<i>gef2Δ::hphMX6 plo1.ts18::ura4<sup>+</sup> mid1-13Myc-kanMX6 ade6 leu1-32 ura4-D18</i>	This study
AP583	<i>h<sup>-</sup> mid1Δ::ura4<sup>+</sup> ade6-M216 leu1-32 ura4-D18 + pAP159 Pmid1 Helix* mid1-GFP integrated at leu1<sup>+</sup></i>	Celton-Morizur <i>et al.</i> , 2004
AP621	<i>h<sup>-</sup> mid1Δ::ura4<sup>+</sup> ade6-M216 leu1-32 ura4-D18 + pAP144 Pmid1 Cter-GFP integrated at leu1<sup>+</sup></i>	Celton-Morizur <i>et al.</i> , 2004
AP630	<i>h<sup>-</sup> mid1Δ::ura4<sup>+</sup> ade6-M216 leu1-32 ura4-D18 + pAP163 Pmid1 Helix* NLS* mid1-GFP integrated at leu1<sup>+</sup></i>	Celton-Morizur <i>et al.</i> , 2004
AP734	<i>h<sup>-</sup> mid1Δ::ura4<sup>+</sup> ade6-M216 leu1-32 ura4-D18 + pAP167 Pmid1 NLS* mid1-GFP integrated at leu1<sup>+</sup></i>	Celton-Morizur <i>et al.</i> , 2004
AP998	<i>h<sup>-</sup> mid1Δ::ura4<sup>+</sup> ade6-M216 leu1-32 ura4-D18 + pSM26 Pmid1 GFP-Nter integrated at leu1<sup>+</sup></i>	Celton-Morizur <i>et al.</i> , 2004
AP1943	<i>h<sup>-</sup> mid1Δ::kanMX4 ade6-M216 leu1-32 ura4-D18 + pMA21 [pJK148-Pmid1-mid1(Δ400-450)-4GFP-stopnmt] integrated at leu1<sup>+</sup></i>	Almonacid <i>et al.</i> , 2009
AP1977	<i>h<sup>-</sup> mid1Δ::kanMX4 ade6-M216 leu1-32 ura4-D18 + pMA23 [pJK148-Pmid1-mid1(Δ300-350)-4GFP-stopnmt] integrated at leu1<sup>+</sup></i>	Almonacid <i>et al.</i> , 2009
FC164	<i>h<sup>-</sup> mid1-366</i>	Chang <i>et al.</i> , 1996
FY12587	<i>h<sup>-</sup> ade6-M210 ura4 leu1<sup>+</sup>::GFP-psy1</i>	Nakamura <i>et al.</i> , 2001
IH1600	<i>h<sup>+</sup> plo1.ts18::ura4<sup>+</sup> ade6-M210 his2 leu1-32 ura4-D18</i>	MacIver <i>et al.</i> , 2003
IH1752	<i>h<sup>-</sup> plo1.ts4::ura4<sup>+</sup> ade6-M210 leu1-32 ura4-D18</i>	Tanaka <i>et al.</i> , 2001
JB201	<i>h<sup>+</sup> plo1-25 ura4-D18</i>	Bähler <i>et al.</i> , 1998a
JM346	<i>h<sup>+</sup> cdr2-mEGFP-kanMX6 ade6 leu1-32 ura4-D18</i>	Moseley <i>et al.</i> , 2009
JM578	<i>h<sup>+</sup> cdr2Δ::kanMX6 ade6 leu1-32 ura4-D18</i>	Moseley <i>et al.</i> , 2009
TP47	<i>h<sup>-</sup> cdc11-136 his7-366 leu1-32 ura4-D18</i>	Bezanilla <i>et al.</i> , 1997
YDM110	<i>h<sup>+</sup> plo1-1 leu1-32 ura4-D18</i>	Bähler <i>et al.</i> , 1998a
YDM114	<i>h<sup>+</sup> plo1-24C ade6-M210 leu1-32 ura4-D18</i>	Bähler <i>et al.</i> , 1998a
YDM429	<i>h<sup>+</sup> sid2-250 ade6-M210 leu1-32 ura4-D18</i>	Sparks <i>et al.</i> , 1999

Supplemental Figure 1, Ye et al.

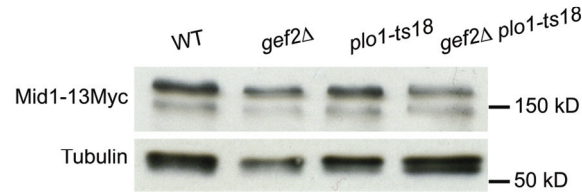


**SUPPLEMENTAL FIGURE S1: Gef2 is required for division-site positioning when Polo kinase Plo1 function is compromised. (A and B) Phenotype and quantification of *gef2Δ plo1* mutants in septum positioning. 24 h after grown in YE5S medium at 25°C, cells (JW2556, JW3184, JW3722, JW3550, JW3723, JW3551, JW3724, JW3552, IH1752, and JW3553) were shifted to 32°C for 5 h before staining and imaging. (A) DIC and Calcofluor staining of septa. (B) Quantification of % normal septum observed in**

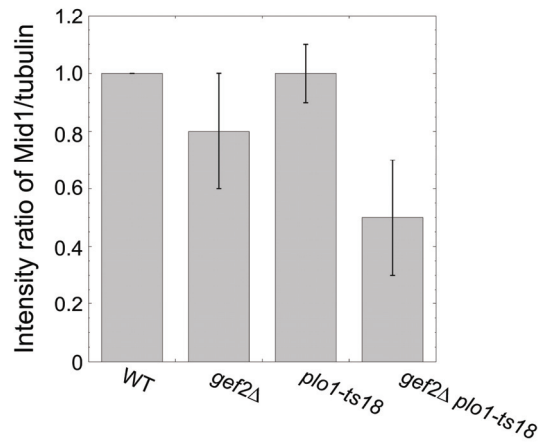
Calcofluor-stained cells. In this and other figures, we defined a septum formed within the central 20% of the cell as a normal septum. Bars, 10  $\mu\text{m}$ .

Supplemental Figure 2, Ye et al.

**A**

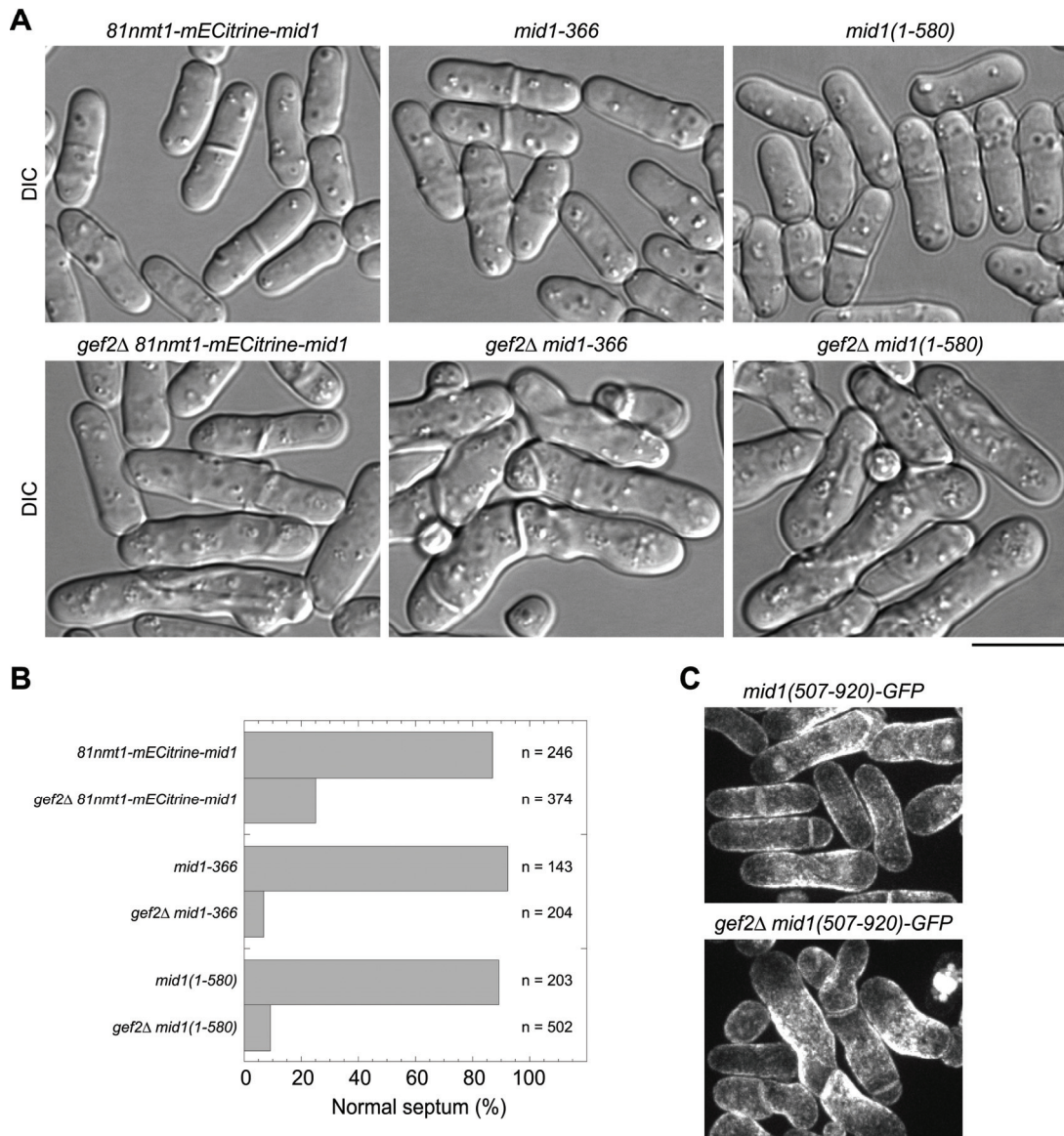


**B**



**SUPPLEMENTAL FIGURE S2:** Mid1 protein level revealed by western blotting. (A and B) Western blotting and quantification of Mid1-13Myc total protein level in cells. Cells (JW3276, JW3277, JW4317, and JW4318) were grown in YE5S at 25°C. (A) Western blotting of total extracted proteins using anti-Myc and anti-tubulin TAT1 antibodies (Woods *et al.*, 1989). (B) Quantification of Mid1 level. The intensity ratio (mean  $\pm$  SD; n = 3) of Mid1/tubulin in each mutant relative to that in wt, which was set as 1.0, is shown.





**SUPPLEMENTAL FIGURE S3:** Gef2 is required for division-site positioning when Mid1 is depleted or Mid1 function is compromised. (A and B) Phenotype and quantification of *gef2Δ mid1* mutants in septum positioning. Cells (JW3364, JW3950, JW2255, JW3949, JW2603, and JW3670) were grown in YE5S at 25°C for 20 h before staining and imaging. (A) DIC image. (B) Quantification of % normal septum observed in Calcofluor-stained cells. (C) Gef2 is dispensable for the localization of Mid1(507-920) to the plasma membrane. AP621 and JW3569 cells were grown at 25°C. Bars, 10 μm.