

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

Strain	Genotype	Fig/Movie/Reference
JW1341 ^a	<i>h⁻ rlc1-tdTomato-natMX6 ade6-M210 leu1-32 ura4-D18</i>	Figs 1A, 1B, 1F, 1G, 1H, S2A, S2B, S6C, and S2 Movie
JW3522 ^a	<i>h⁺ rlc1-tdTomato-natMX6 ade6-M216 leu1-32 ura4-D18</i>	Figs 1A, 1B, 1F, 1G, 1H, S2A, S2B, S6C, and S2 Movie
JW81	<i>h⁻ ade6-210 ura4-D18 leu1-32</i>	Figs 1D, 1E, and S2D
JW6581	<i>h⁻ kanMX6-P81nmt1-mECitrine-sbg1 ade6-210 ura4-D18 leu1-32</i>	Figs 1C, 1D, 1E, S2C, and S2D
JW6169	<i>h⁻ kanMX6-P41nmt1-mECitrine-sbg1 ade6-210 leu1-32 ura4-D18</i>	Fig S2C
JW6687	<i>h⁺ kanMX6-Psbgl-mECitrine-sbg1 ade6-M210 leu1-32 ura4-D18</i>	Fig S2C
JW6893	<i>kanMX6-P81nmt1-mECitrine-sbg1 rlc1-tdTomato-natMX6 ade6-M210 leu1-32 ura4-D18</i>	Figs 1F, 1I, and 1G
JW2042 ^b	<i>h⁻ rlc1-tdTomato-natMX6 leu1⁺::GFP-psy1 ade6-M210 ura4</i>	S1 and S3 Movies
JW6872 ^b	<i>h⁺ rlc1-tdTomato-natMX6 leu1⁺::GFP-psy1 ade6-M216 leu1-32 ura4-D18</i>	S1 and S3 Movies
JW81	<i>h⁻ ade6-210 ura4-D18 leu1-32</i>	Figs 2A, 2B, 2D, S2E, and S2F
JW6581	<i>h⁻ kanMX6-P81nmt1-mECitrine-sbg1 ade6-210 ura4-D18 leu1-32</i>	Figs 2A, 2C, 2D, and S2E
JW6687	<i>h⁺ kanMX6-Psbgl-mECitrine-sbg1 ade6-M210 leu1-32 ura4-D18</i>	Fig 3A
JW6583	<i>kanMX6-Psbgl-mEGFP-sbg1 sad1-mRFP1-kanMX6 ade6-M210 leu1-32 ura4-D18</i>	Figs 3B and S3A
JW6787	<i>kanMX6-Psbgl-mEGFP-sbg1 bgs1Δ::ura4⁺ Pbgs1⁺-tdTomato-bgs1⁺:leu1⁺ade6-M210? his3-D1? leu1-32 ura4-D18</i>	Figs 3C, 3D, 3E, S3E, S3F, and S5 Movie
JW6174	<i>h⁻ kanMX6-Psbgl-mEGFP-sbg1 ade6-210 leu1-32 ura4-D18</i>	Figs S3B, S3C, S3D, and S4 Movie
JW6661	<i>sec8-1 kanMX6-Psbgl-mEGFP-sbg1 ade6-210? leu1-32 ura4-D18</i>	Fig S3D
JW81	<i>h⁻ ade6-210 ura4-D18 leu1-32</i>	Fig 3F
JW6871	<i>h⁻ kanMX6-P3nmt1-3FLAG-sbg1 bgs1Δ::ura4⁺ GFP-bgs1-leu1⁺ leu1-32 ura4-D18</i>	Fig 3F
JW3055	<i>h⁻ bgs1Δ::ura4⁺ GFP-bgs1-leu1⁺ leu1-32 ura4-D18</i>	Fig 3F; [16]
JW6951	<i>kanMX6-P3nmt1-3FLAG-sbg1 ade6? leu1-32 ura4-D18</i>	Fig 3F
JW6774	<i>kanMX6-Psbgl-mEGFP-sbg1 bgs4Δ::ura4⁺ Pbgs4⁺::RFP-bgs4⁺-leu1⁺ ade6-210? leu1-32 his3-D1? ura4-D18</i>	Figs S3E and S3F
JW6794	<i>kanMX6-Psbgl-mEGFP-sbg1 ags1Δ 3'UTR_{ags1}⁺::ags1⁺-Cherry:leu1⁺:ura⁺ ade6-M210 his3-D1? leu1-32 ura4-D18</i>	Figs S3E and S3F
JW5249 ^c	<i>h⁺ GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ rlc1-tdTomato-natMX6 ade6-M210 leu1-32 ura4-D18</i>	Figs 4A, 4B, S4A, S4B, S4C, and S6 Movie
JW6948 ^c	<i>h⁻ GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ rlc1-tdTomato-natMX6 ade6-M216 leu1-32 ura4-D18</i>	Figs 4A, 4B, S4A, S4B, and S6 Movie
JW6174	<i>h⁻ kanMX6-Psbgl-mEGFP-sbg1 ade6-210 leu1-32 ura4-D18</i>	Fig 4D
JW6660	<i>bgs1-191 kanMX6-Psbgl-mEGFP-sbg1 ade6-210 ura4-D18 leu1-32</i>	Fig 4D
JW7179	<i>tom20-GBP-hphMX6 kanMX6-Psbgl-mEGFP-sbg1 bgs1Δ::ura4⁺ Pbgs1⁺-tdTomato-bgs1⁺:leu1⁺ade6-M210? his3-D1? leu1-32 ura4-D18</i>	Fig 4C

JW7182	<i>tom20-GBP-hphMX6 kanMX6-Psbgl1-tdTomato-sbg1 GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ ade6-M210 leu1-32 ura4-D18</i>	Fig 4E
JW6892	<i>GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ rlc1-tdTomato-natMX6 kanMX6-P4lnmt1-sbg1 ade6-M210 leu1-32 ura4-D18</i>	Fig S4C
562	<i>h⁺ bgs4Δ::ura4⁺ Pbgs4⁺::GFP-bgs4⁺-leu1⁺ leu1-32 ura4-D18 his3-D1</i>	Figs S4D and S4F; [20]
JW7102	<i>bgs4Δ::ura4⁺ Pbgs4⁺::GFP-bgs4⁺-leu1⁺ kanMX6-P4lnmt1-sbg1 ade6-M210? leu1-32 ura4-D18 his3-D1?</i>	Figs S4D and S4F
4004	<i>h⁻ ags1Δ 3'UTR_{ags1}⁺::ags1⁺-Cherry:leu1⁺:ura4⁺ ade6-M210 his3-D1 leu1-32 ura4-D18</i>	Figs S4E and S4F; [18]
JW7100	<i>ags1Δ 3'UTR_{ags1}⁺::ags1⁺-Cherry:leu1⁺:ura4⁺ kanMX6-P4lnmt1-sbg1 ade6-210 leu1-32 ura4-D18 his3-D1?</i>	Figs S4E and S4F
JW6787	<i>kanMX6-Psbgl1-mEGFP-sbg1 bgs1Δ::ura4⁺ Pbgs1⁺-tdTomato-bgs1⁺:leu1⁺ ade6-M210? his3-D1? leu1-32 ura4-D18</i>	Fig S5A
JW7181	<i>tom20-GBP-hphMX6 kanMX6-Psbgl1-mEGFP-sbg1 ade6-M210? his3-D1? leu1-32 ura4-D18</i>	Fig S5A
JW7180	<i>tom20-GBP-hphMX6 bgs1Δ::ura4⁺ Pbgs1⁺-tdTomato-bgs1⁺:leu1⁺ ade6-M210? his3-D1? leu1-32 ura4-D18</i>	Fig S5A
JW7105	<i>tom20-GBP-hphMX6 GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ ade6-M210 leu1-32 ura4-D18</i>	Fig S5B
JW7531	<i>kanMX6-Psbgl1-tdTomato-sbg1 GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ ade6-M210 leu1-32 ura4-D18</i>	Fig S5B
JW7532	<i>tom20-GBP-hphMX6 kanMX6-Psbgl1-tdTomato-sbg1 ade6-M210 leu1-32 ura4-D18</i>	Fig S5B
JW5249 ^c	<i>h⁺ GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ rlc1-tdTomato-natMX6 ade6-M210 leu1-32 ura4-D18</i>	Figs 5A, 5B, 5C, 5D, 5E, S6A, and S6H
JW6948 ^c	<i>h⁻ GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ rlc1-tdTomato-natMX6 ade6-M216 leu1-32 ura4-D18</i>	Figs 5A and S6H
JW6949	<i>GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ rlc1-tdTomato-natMX6 kanMX6-P4lnmt1-sbg1 ade6-210 leu1-32 ura4-D18</i>	Fig 5B
JW6891	<i>GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ rlc1-tdTomato-natMX6 kanMX6-P8lnmt1-mECitrine-sbg1 ade6-M210 leu1-32 ura4-D18</i>	Figs 5C, 5D, 5E, and S6A
JW6088	<i>sec8-GFP-ura4⁺ rlc1-tdTomato-natMX6 ade6-M210 leu1-32 ura4-D18</i>	Fig S6D
JW7104	<i>sec8-GFP-ura4⁺ kanMX6-P4lnmt1-sbg1 rlc1-tdTomato-natMX6 ade6-M210 leu1-32 ura4-D18</i>	Fig S6D
JW6151	<i>h⁻ GFP-syb1-kanMX6 ade6 leu1 ura⁺</i>	Fig S6E
JW7183	<i>GFP-syb1-kanMX6 kanMX6-P4lnmt1-sbg1 ade6 leu1 ura4?</i>	Fig S6E
JW5249 ^c	<i>h⁺ GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ rlc1-tdTomato-natMX6 ade6-M210 leu1-32 ura4-D18</i>	Figs 6A, 6B, 6C, S6B, S6G, S6H, and S7 Movie
JW6948 ^c	<i>h⁻ GFP-bgs1-leu1⁺ bgs1Δ::ura4⁺ rlc1-tdTomato-natMX6 ade6-M216 leu1-32 ura4-D18</i>	Figs 6A, 6B, 6C, S6B, S6G, S6H, and S7 Movie
JW6174	<i>h⁻ kanMX6-Psbgl1-mEGFP-sbg1 ade6-210 leu1-32 ura4-D18</i>	Fig S6F
JW6874	<i>kanMX6-Psbgl1-mEGFP-sbg1 cdc15-140 ade6-M210 leu1-32 ura4-D18</i>	Fig S6F
1780	<i>h⁻ Pbgs1⁺-tdTomato-bgs1⁺:leu1⁺ bgs1Δ::ura4⁺ leu1-32 ura4-D18 his3-D1</i>	[17]
FY12587	<i>h⁻ leu1⁺::GFP-psyl ade6-M210 ura4</i>	Gift from NBRP, Japan
JW6901	<i>h⁻ tom20-GBP-hphMX6 ade6-M210 leu1-32 ura4-D18</i>	[42]

^{a,b,c} The paired strains were used to make different diploids. Diploid strains are not stored long term as they are not stable.