Supplementary Table S1: Fission yeast strains used in this study

Strains	Genotypes	Figures used	Derivation*
513	*h⁻ leu1 ura4*	1A-C, S1A	Our lab stock
YY153	*h⁻ klp2::hphR leu1 ura4*	1A-C	This study
MY1008	*h⁻ cut7-21 leu1 ura4*	1A, S1A-B	Our lab stock
MY784	*h⁻ cut7-21 pkl1::natR leu1 ura4*	1A	This study
YY161	*h⁻ cut7-21 klp2::hphR leu1 ura4*	1A	This study
YY180	*h⁻ cut7-21 pkl1::natR klp2::hphR leu1 ura4*	1A	This study
MY637	*h⁻ cut7-22 ade6-210*	1B, S1A-B	Our lab stock
YY147	*h⁻ cut7-22 pkl1::natR leu1 ura4*	1B	This study
YY163	*h⁻ cut7-22 klp2::hphR leu1 ura4*	1B	This study
YY165	*h⁻ cut7-22 pkl1::natR klp2::hphR leu1 ura4*	1B	This study
NK193	*h⁺ cut7-446 leu1 his2*	1C, S1A-B	Our lab stock
YY169	*h⁻ cut7-446 pkl1::natR leu1 ura4?*	1C	This study
YY171	*h⁻ cut7-446 klp2::hphR leu1 ura4?*	1C	This study
YY184	*h⁻ cut7-446 pkl1::natR klp2::hphR leu1*	1C	This study
YY186	*h⁻ cut7::bleR pkl1::natR klp2::hphR leu1 ura4*	1D	This study
YY156	*h⁺ cut7-GFP-kanR klp2::hphR leu1 ura4 his2*	1D	This study
MY844	*h⁻ kanR-GFP-alp4 cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4*	1E, 3A-D, 4A-B	This study
YY204	*h⁺ cut7::bleR pkl1::natR kanR-GFP-alp4 cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4 his2*	1E, 3A-D	This study
YY203	*h⁻ cut7::bleR pkl1::natR klp2::hphR kanR-GFP-alp4 cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4*	1E, 3A-D	This study
YY209	*h⁺ klp2::hphR kanR-GFP-alp4 cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4 his2*	1E, 4A-B	This study
YY207	*h⁻ pkl1::natR kanR-GFP-alp4 cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4*	1E, 4A-C	This study
YY205	*h⁻ pkl1::natR klp2::hphR kanR-GFP-alp4 cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4*	1E, 4A-C	This study
YY190	*h⁻ kanR-GFP-alp4 aur1R-Pnda3-mCherry-atb2 leu1 ura4*	2A-E	This study
YY236	*h⁺ cut7-22 pkl1::natR kanR-GFP-alp4 aur1R-Pnda3-mCherry-atb2 leu1 ura4 his2*	2A-E	This study
YY238	*h⁺ cut7-22 klp2::hphR kanR-GFP-alp4 aur1R-Pnda3-mCherry-atb2 leu1 ura4 his2*	2A-E	This study
YY240	*h⁺ cut7-22 pkl1::natR klp2::hphR kanR-GFP-alp4 aur1R-Pnda3-mCherry-atb2 leu1 ura4 his2*	2A-E	This study
MY858	*h⁻ kanR-Palp4-GFP-pkl1 aur1R-Pnda3-mCherry-atb2 leu1 ura4*	5A	This study
MY1030	*h⁻ kanR-Palp4-GFP-klp2 aur1R-Pnda3-mCherry-atb2 leu1 ura4*	5B	This study
MY1028	*h⁻ kanR-GBP-6HIS-mCherry-alp4 kanR-Palp4-GFP-klp2 aur1R-Pnda3-mCherry-atb2 leu1 ura4*	5C-D	This study
MY1032	*h⁻ kanR-GBP-6HIS-mCherry-alp4 kanR-Palp4-GFP-klp2 pkl1::natR aur1R-Pnda3-mCherry-atb2 leu1 ura4*	5C-E	This study
MY1040	*h⁻ kanR-Palp4-GFP-klp2 cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4*	5D	This study
MY1042	*h⁻ kanR-Palp4-GFP-klp2 pkl1::natR cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4*	5D	This study
TK221	*h⁺ kanR-GBP-6HIS-mCherry-alp4 pkl1::natR cut7::bleR aur1R-Pnda3-mCherry-atb2 leu1 ura4 his2*	5E	This study
MY1317	*h⁻ pcp1-CFP-hphR aur1R-Pnda3-mCherry-atb2 leu1 ura4* **[pREP41-GFP-HSET]**	6A, 6E-F	This study
MY1379	*h⁻ cut7-22 pkl1::natR kanR-GFP-alp4 aur1R-Pnda3-mCherry-atb2 leu1 ura4* **[pREP41-GFP]**	6B	This study
MY1383	*h⁻ cut7-22 pkl1::natR kanR-GFP-alp4 aur1R-Pnda3-mCherry-atb2 leu1 ura4* **[pREP41-GFP-HSET]**	6B	This study
MY1385	*h⁻ cut7-22 klp2::hphR kanR-GFP-alp4 aur1R-Pnda3-mCherry-atb2 leu1 ura4* **[pREP41-GFP]**	6B	This study
MY1389	*h⁻ cut7-22 klp2::hphR kanR-GFP-alp4 aur1R-Pnda3-mCherry-atb2 leu1 ura4* **[pREP41-GFP-HSET]**	6B	This study
TY170	*h⁺ lys1⁺-Pnmt41-GFP-HSET kanR-GBP-6HIS-mCherry-alp4 aur1R-Pnda3-mCherry-atb2 leu1 ura4 his2*	6C-D	This study
TY174	*h⁺ lys1⁺-Pnmt41-GFP-HSET kanR-GBP-6HIS-mCherry-alp4 pkl1::natR aur1R-Pnda3-mCherry-atb2 leu1 ura4 his2*	6C-D	This study
TY168	*h⁺ lys1⁺-Pnmt41-GFP-HSET cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4 his2*	6D	This study
TY158	*h⁻ lys1⁺-Pnmt41-GFP-HSET pkl1::natR cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4*	6D	This study
MY1313	*h⁻ pcp1-CFP-hphR aur1R-Pnda3-mCherry-atb2 leu1 ura4* **[pREP41-GFP]**	6E-F	This study
MY1315	*h⁻ pcp1-CFP-hphR aur1R-Pnda3-mCherry-atb2 leu1 ura4* **[pREP41-GFP-pkl1]**	6E-F	This study
MY1377	*h⁻ pcp1-CFP-hphR aur1R-Pnda3-mCherry-atb2 leu1 ura4* **[pREP1-klp2]**	6E-F	This study
MA2-3D	*h⁻ cut7-23 leu1*	S1A-B	Our lab stock
IH136	*h⁻ cut7-24 leu1*	S1A-B	Our lab stock
MY1403	*h⁺ cut7-GFP-kanR cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 leu1 ura4 his2*	S2	This study
MY1405	*h⁺cut7-GFP-kanR cut11-GFP-ura4⁺ aur1R-Pnda3-mCherry-atb2 pkl1::natR leu1 ura4 his2*	S2	This study
MY1399	*h⁻cut7-GFP-kanR kanR-GBP-6HIS-mCherry-alp4 aur1R-Pnda3-mCherry-atb2 leu1 ura4*	S2	This study
MY1401	*h⁻cut7-GFP-kanR kanR-GBP-6HIS-mCherry-alp4 aur1R-Pnda3-mCherry-atb2 pkl1::natR leu1 ura4*	S2	This study

*Strains were developed for this study unless otherwise specified.
his2=his2-245; *leu1=leu1-32*; *ura4=ura4-D18*.

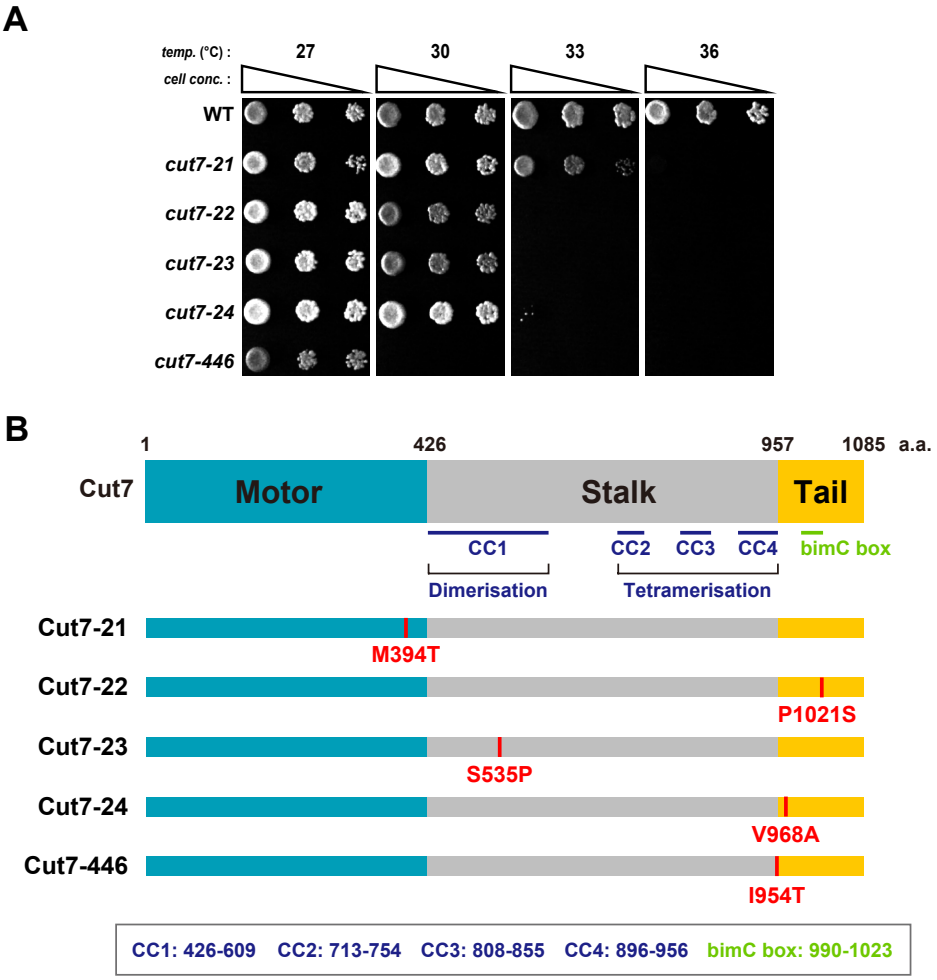

Figure S1. Growth properties of various *cut7* ts strains and their mutation sites

(A) Spot tests. Wild type (top) and indicated *cut7* ts strains were serially (10-fold) diluted, spotted onto rich YE5S plates and incubated at indicated temperatures for 2 d. *cell conc.*, cell concentration, *temp.*, temperature. **(B)** Mutation sites in individual *cut7* ts mutants. Overall domain structure of Cut7 is shown at the top. CC, coiled-coil.

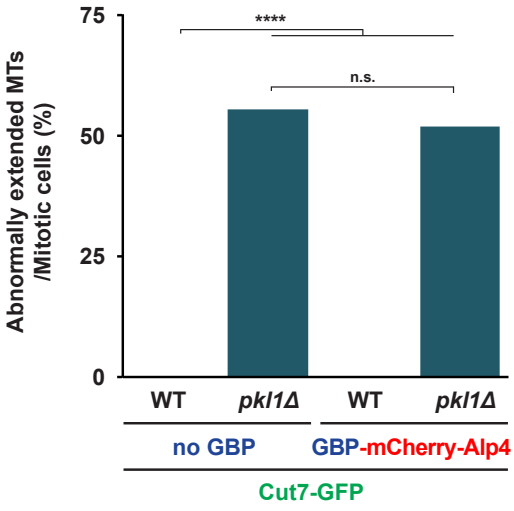

Figure S2. Tethering Cut7 to the SPB in *pkl1* deleted cells

Cut7-GFP was tethered to the SPB using GBP-mCherry-Alp4 in *pkl1*Δ cells, and spindle anchorage was inspected. >25 mitotic cells were observed in each strain. All p-values are derived from a two-tailed χ^2 test (****, $P < 0.0001$; n.s., not significant).