Figure S1  Phenotype of the kinase dead mutant (bud32-K52). (A) Budding patterns of the kinase dead mutant. Strains used were diploid BY4743, the bud32Δ (CCY003), the bud32-K52A (CCY056). (B) Budding pattern of cells with BUD8 deletion in the kinase dead mutant backgrounds. Diploid strains used were the bud32Δ (CCY003), bud32Δbud8Δ (CCY026), K52Abud8Δ (CCY058) and bud8Δ (CCY011). (C) Budding pattern of cells with BUD9 deletion in the kinase dead mutant backgrounds. Diploid strains used were the bud32Δ (CCY003), bud32Δbud9Δ (CCY029), K52Abud9Δ (CCY060) and bud9Δ (CCY013). Budding positions are classified as in the budding pattern of diploid cells.
in Figure 1A. At least 150 cells were scored for each bud scar pattern from both daughter and mother cells; the percentages are indicated. The black, white, and dotted boxes indicate daughter cells with bud at only the proximal pole, only the distal pole, or the random site, respectively. The gray, black, white, and dotted boxes indicate mother cells with buds at two poles, only the proximal pole, only the distal pole, or the random site, respectively. (D) Localization of GFP-Bud8p and GFP-Bud9p in the kinase dead mutant. The bud32-K52A (CCY065) mutant expressing full-length GFP-Bud8p and GFP-Bud9p from its own promoter in pYC14 or pYC06, respectively, was grown for 12-16h at 25°C in synthetic complete (SC)–Leu or –Ura liquid medium, stained with calcofluor white, and then suspended in water for observation. GFP-Bud8p/GFP-Bud9p and bud scars were observed with a fluorescence microscope with GFP and UV filter sets, respectively.