

Supporting Information S8 Fig. Representative morphology of *Trichoderma* mutants lacking *rab7*

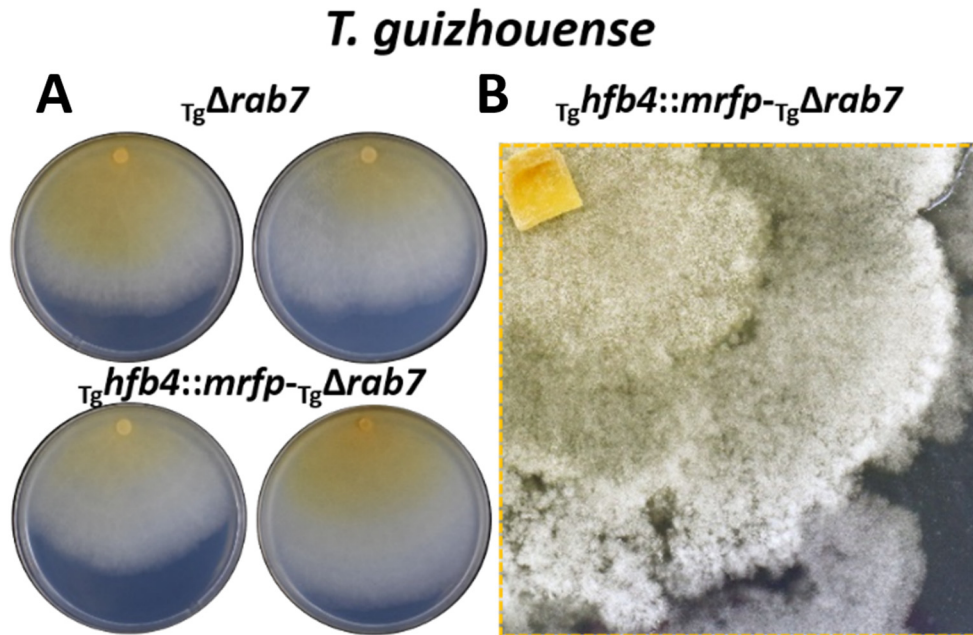


Fig A Representative morphology of *Trichoderma* $\Delta rab7$ mutants (N=2 for each genotype) generated in this study (14 d). **(A)**, *Trichoderma* strains grown on PDA at 25 °C in darkness; **(B)**, a close-up image of the colony cultivated under the same conditions for 14 d.

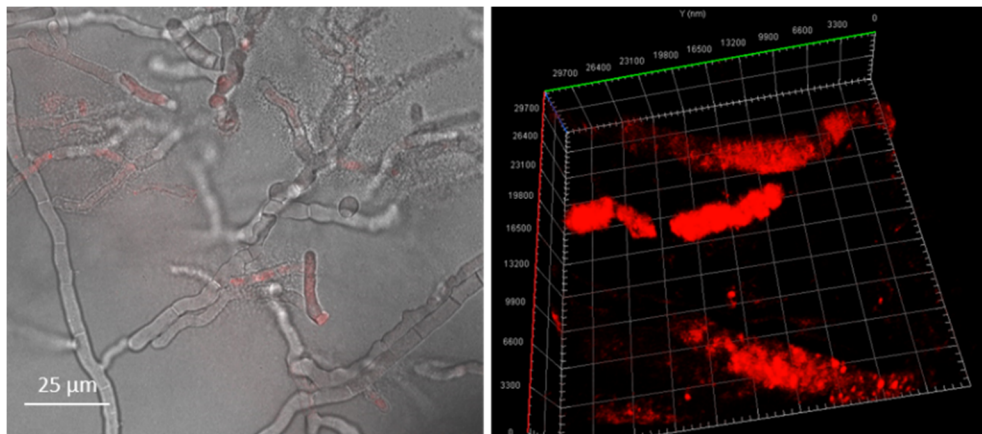


Fig B left: Representative morphology of $T_g hfb4::mrfp-\Delta rab7$ mutants (N=2 for each genotype) observed under an epifluorescence microscope when an agar plug was placed on a cover glass. Right: A fluorescence overlay image is shown on the left, and a 3D reconstruction of the superresolution CLSM image.

*Tg*hfb4::mrfp- Δ rab7

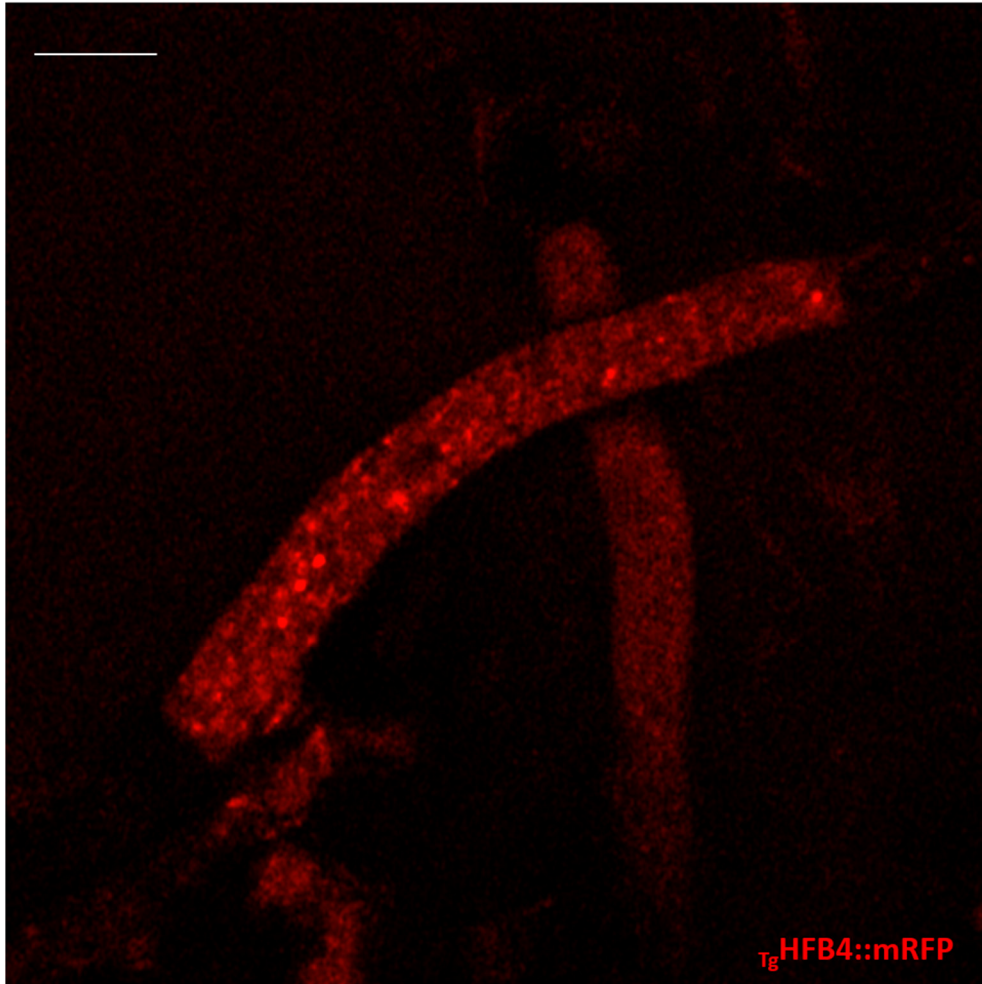


Fig C A 3D reconstruction of the aerial hyphae of the *Trichoderma guizhouense* mutant producing HFB4::mRFP but lacking the key protein for the cytoplasm-to-vacuole sorting pathway, RAB7 (homologous to YPT7 in *S. cerevisiae*). Scale bar= 10 μ m.