## Sharma et al. Supplementary information

## **Supplementary Figure S4**

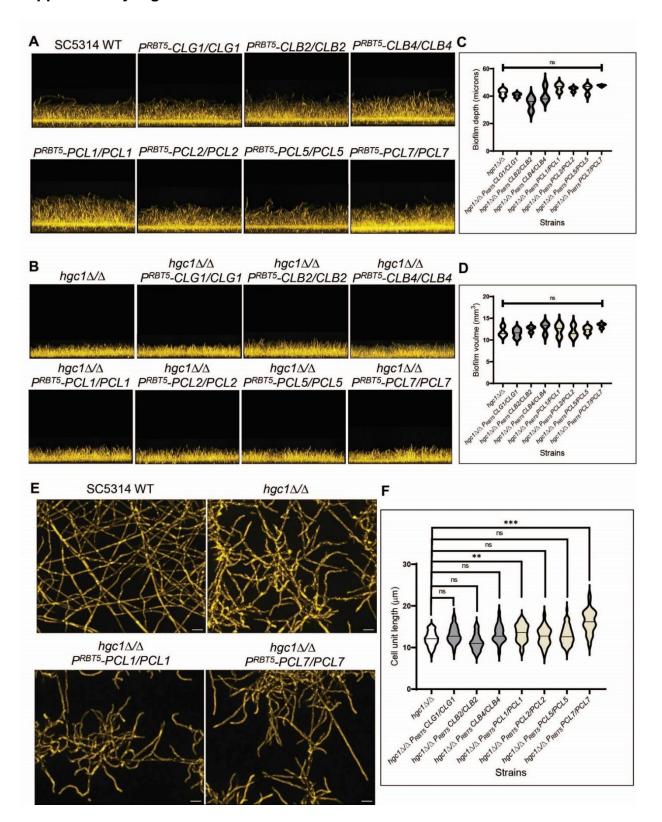


Fig. S4: Overexpression of cyclin genes *PCL1* and *PCL7* induces hyphal growth during biofilm formation in SC5314 hgc1\(\triangle\)\(\triangle\) mutant. (A) and (B) Biofilm side view projections. Wild-type SC5314 and its derivative strains were assayed for biofilm formation under in vitro conditions. All strains were grown in RPMI at 37°C for 24 hours (96-well plate). Fixed biofilms were stained using Calcofluor white and imaged using a Keyence BZ-X800E fluorescence microscope. Representative side view images are shown, and the vertical scale bar represents the 100 µm in length. (C) and (D) Violin plots showing the biofilm depth (in microns) and volume (in mm<sup>3</sup>) distributions of the indicated strains respectively. Biofilm depth and volume were measured with the software ImageJ. The significant differences were calculated between the pair of means using Sidak's multicomparison test: ns, p > 0.05. (E) Apical view projections from the biofilms of the indicated strains were obtained using maximum intensity Z-projection of ~20 planes at 0.45 µm step-size. White scale bars in each panel are 100 µm in length. (F) Violin plots showing the distribution of cell unit lengths of the indicated strains. Cell unit lengths were quantified with ImageJ, with a minimum of five fields and 50 cells for each strain background. The significant differences were calculated between the pair of means using Sidak's multicomparison test: \*\*, p < 0.01; \*\*\*, p < 0.001.