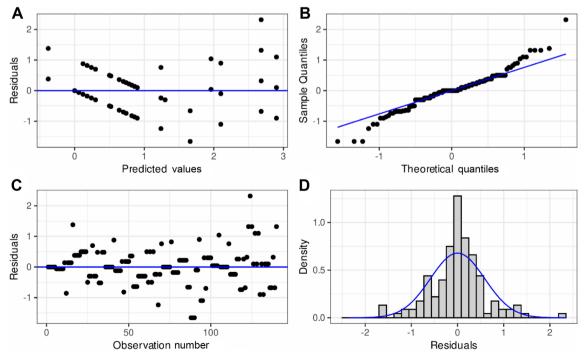


Supplementary Fig. 3. Antagonism of deletion mutant lines and their volatile effect on four pathogenic fungi. Bacterial stock cultures were inoculated on MS media and incubated for 10 days, followed by filtration using a cotton ball and a 10-ml syringe to obtain an OD_{600nm} of 0.6. *In vitro* fungal growth inhibition assays were conducted by culturing the bacteria on one section of a bi-Petri dish, and after 5 days, inoculating the other sections with the fungi. The medium was then incubated at 28°C for 5 days.



Supplementary Fig. 4. The diagnostic plots from a linear ANOVA model are generated using the functions provided by the ggResidpanel package in R. These plots include sample quantiles, which are essential statistical measures for assessing the normality and homoscedasticity assumptions of the model.