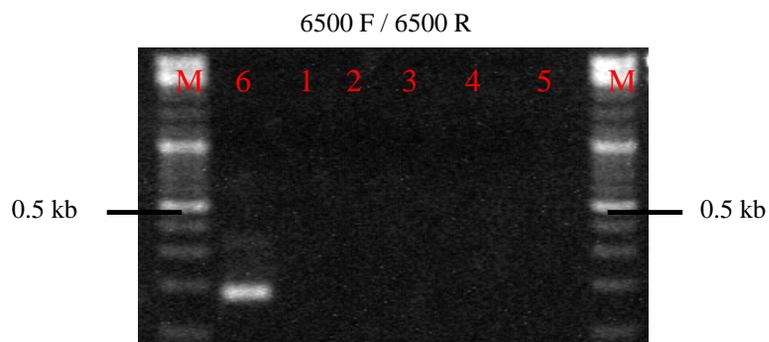
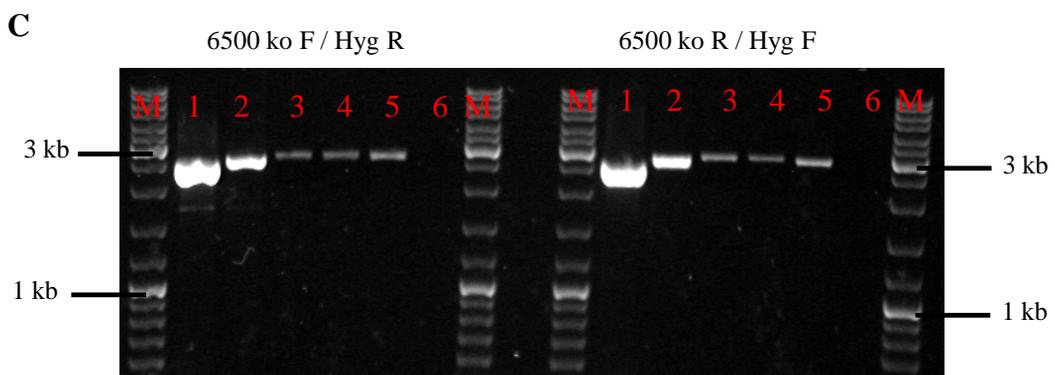
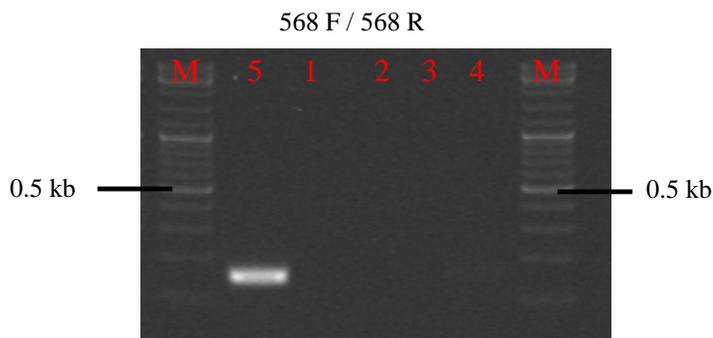
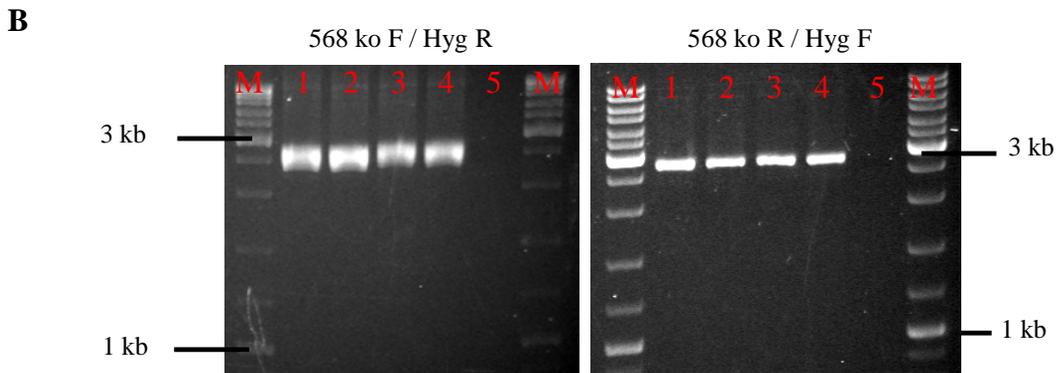
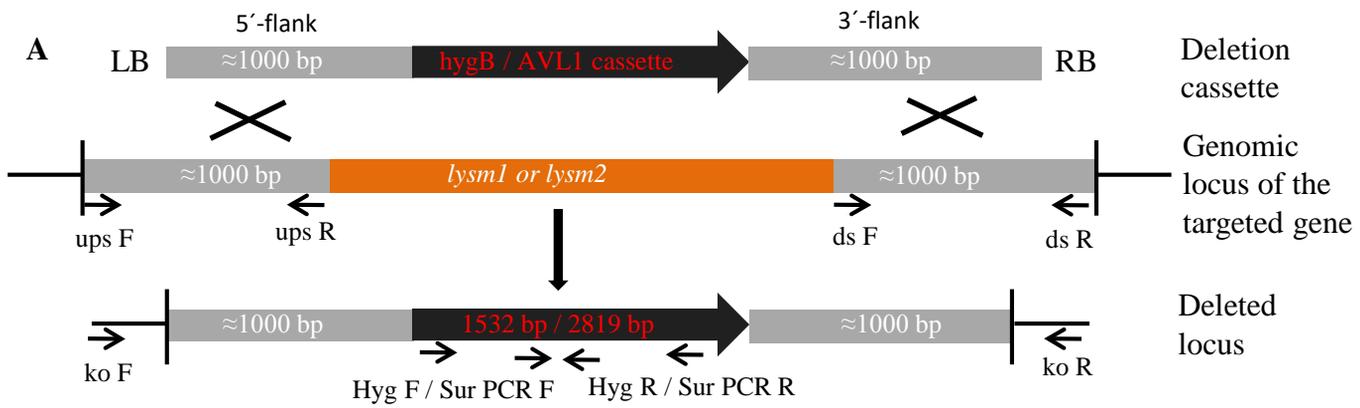


Figure S3



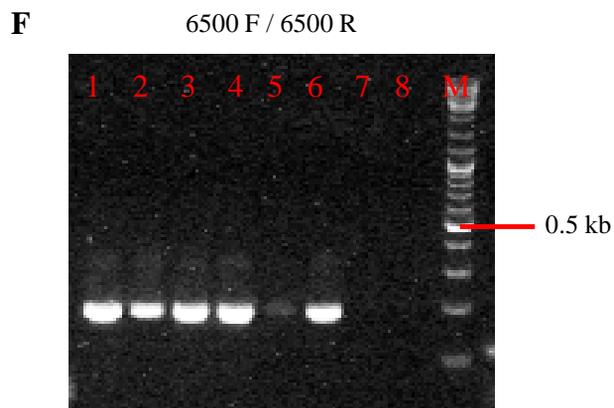
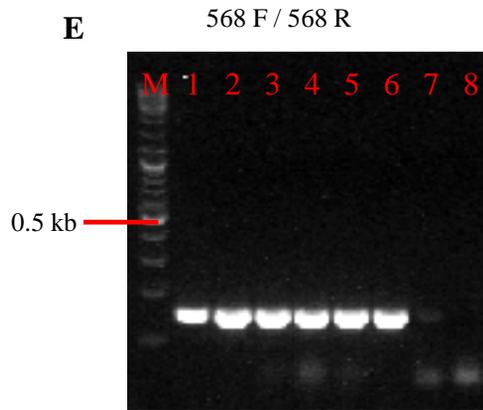
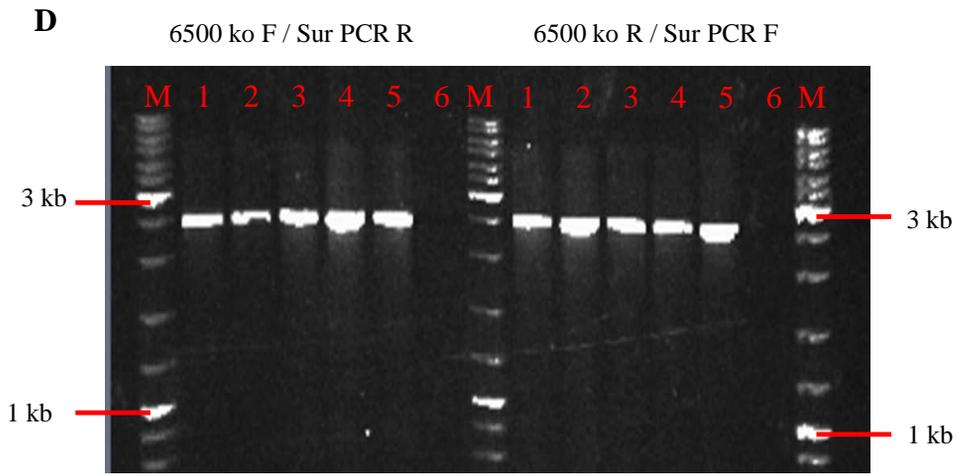


Figure S3: Schematic representation of deletion cassettes, and validation of mutant strains using PCR and RT-PCR.

A: Organisation of *lysm1* or *lysm2* locus in WT and mutant strains of *C. rosea*. The coding region of respective gene was replaced by *hygB* (or *ILV1* for double deletion) cassette by homologous recombination resulting in generation of deletion strains. The arrow heads indicate the location of primers used to construct the deletion cassette and analysis of mutants using PCR. Abbreviations: LB, left border; RB, right border.

B: PCR verification of Δ *lysm1* strains using primers located in the *hygB* cassette (*Hyg F* / *Hyg R*) in combination with primers located upstream and downstream from the deletion cassette (568 ko F / 568 ko R). A PCR product of ~2.7 kb using primers 568 ko F / *Hyg R*, and 568 ko R / *Hyg F* were expected from a correct gene replacement. RT-PCR analysis of *lysm1* gene expression in WT and deletion strains using *lysm1* specific primers 568 F / 568 R. A PCR product of 140 bp was expected from WT. M, gene ruler DNA ladder mix; 1-4, independent Δ *lysm1* mutants; 5, WT strain.

C: PCR verification of Δ *lysm2* using primers located in the *hygB* cassette (*Hyg F* / *Hyg R*) in combination with primers located upstream and downstream from the deletion cassette (6500 ko F / 6500 ko R). A PCR product of ~2.7 kb using primers 6500 ko F / *Hyg R*, and 6500 ko R / *Hyg F* were expected from a correct gene replacement. RT-PCR analysis of *lysm2* gene expression in WT and deletion strains using *lysm2* specific primers. A PCR product of 173 bp was expected from WT. M, gene ruler DNA ladder mix; 1-5, independent Δ *lysm2* mutants; 6, WT strain.

D: PCR verification of Δ *lysm1* Δ *lysm2* using primers located in the *ILV1* cassette (*Sur PCR F* / *Sur PCR R*) in combination with primers located upstream and downstream from the deletion cassette (6500 ko F / 6500 ko R). A PCR product of ~2.7 kb using primers 6500 ko F / *Sur PCR R*, and 6500 ko R / *Sur PCR F* were expected from a correct gene replacement.

E: Validation of complementation strains. RT-PCR analysis of *lysm1* expression in WT, Δ *lysm1*, and Δ *lysm1*+ complemented strains, using *lysm1* specific 568 F/568 R primers. M, gene ruler DNA ladder mix; 1-5, independent Δ *lysm1*+ strains; 6, WT; 7, Δ *lysm1*; 8, water control.

F: Validation of complementation strains. RT-PCR analysis of *lysm2* expression in WT, Δ *lysm2*, and Δ *lysm1*+ complemented strains, using *lysm2* specific 6500 F/6500 R primers. M, gene ruler DNA ladder mix; 1-5, independent Δ *lysm2*+ strains; 6, WT; 7, Δ *lysm2*; 8, water control.

Primer combinations used for PCR and RT-PCR are given above the images.