

3.2. Construction and Validation of *VdKeR1* Knockout Mutants and Complementary Strains

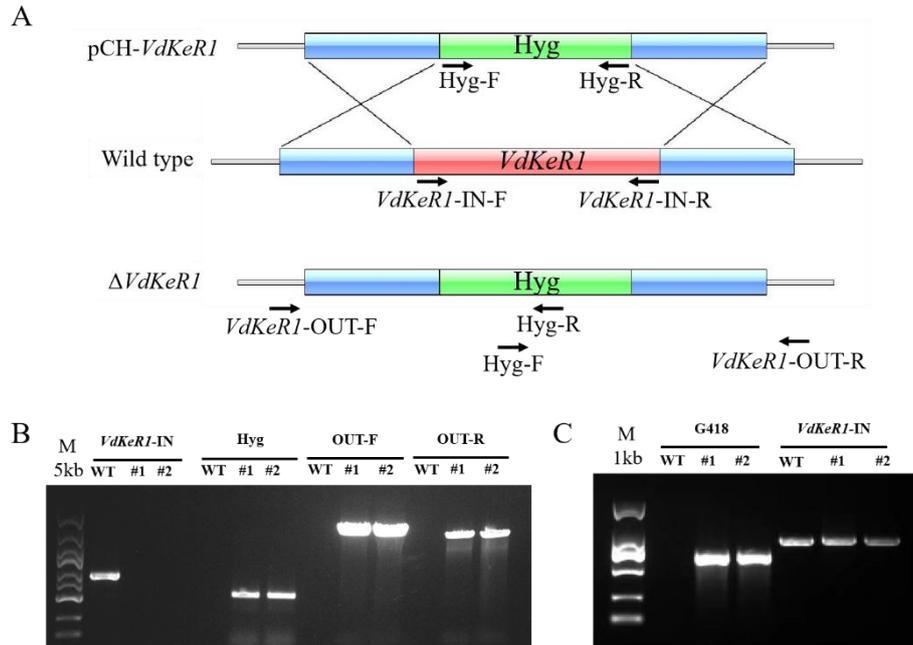


Figure S1. (A) Schematic diagram of the construction of a knockout vector using homologous recombination principle to replace *VdKeR1* gene with the hygromycin resistance gene (Hyg). (B) PCR identification of knockout transformants. The PCR identification was performed using *VdKeR1*-IN-F and *VdKeR1*-IN-R primers, Hyg-F and Hyg-R primers, *VdKeR1*-OUT-F and Hyg-R primers, Hyg-F and *VdKeR1*-OUT-R primers designed internally for the *VdKeR1* gene. (C) PCR identification of the complementary transformants; PCR identification was performed using G418-F and G418-R primers, as well as *VdKeR1*-IN-F and *VdKeR1*-IN-R primers.