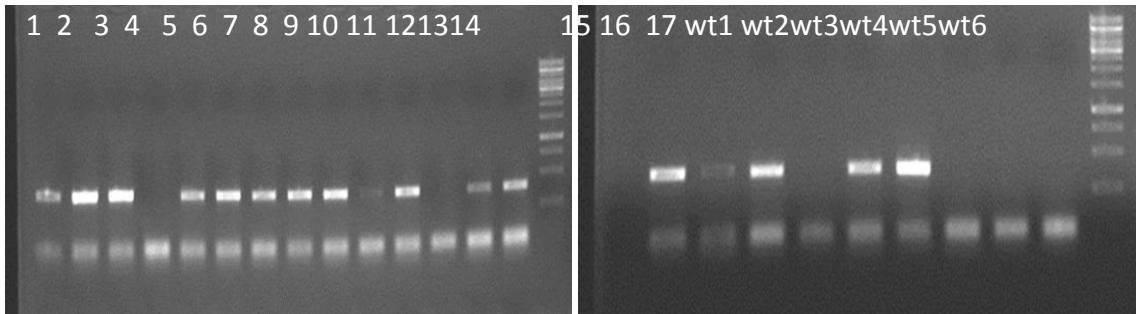


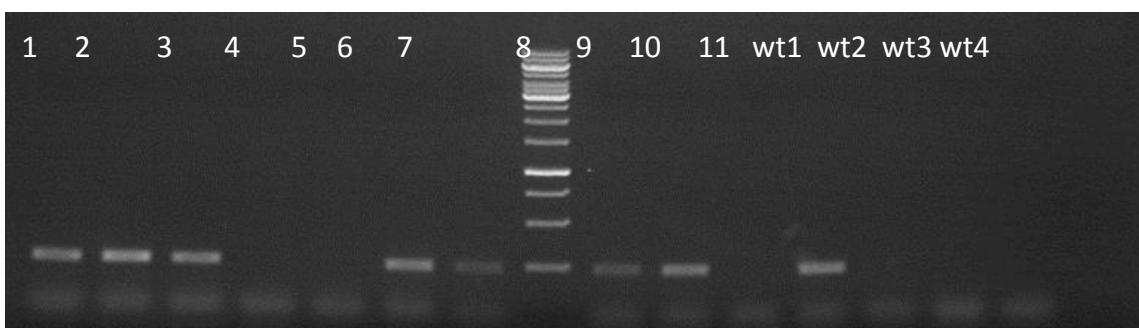
SUPPL. Figures

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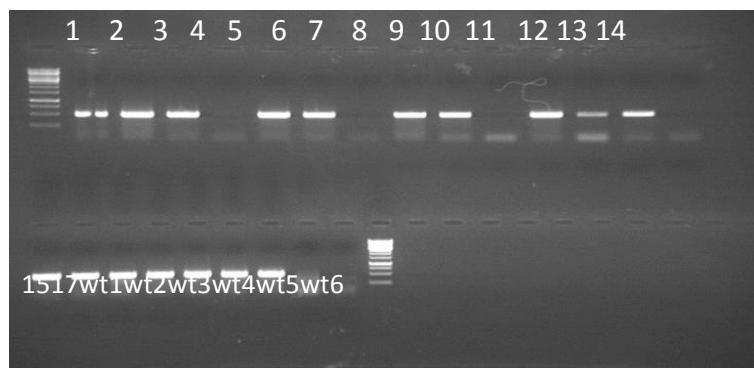
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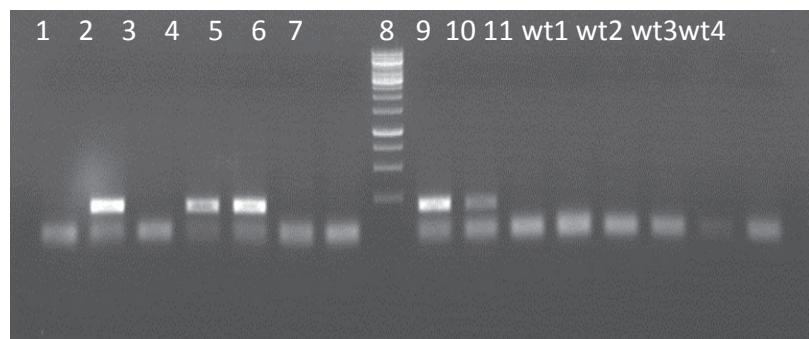
SUPPL. Fig. 1. PCR using 3AF & LTR4 to test the presence of the *Tnt1* border in the predicted mutant terpene synthase (TPS5) locus within *hypn* mutated individual and wild type collection of *hypn* & R108 of *Medicago* plants



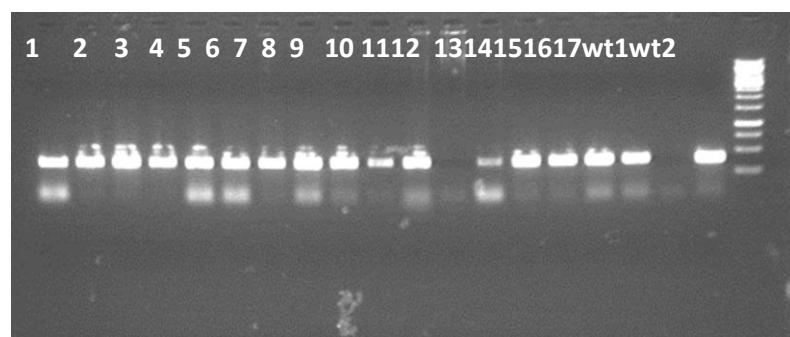
SUPPL. Fig. 2. PCR using 16AR & LTR4 to test the incidence of the *Tnt1* border in the predicted mutants phosphoribosyl transferase-like protein locus within *hypn* mutated individual and wild type collection of *hypn* & R108 of *Medicago* plants



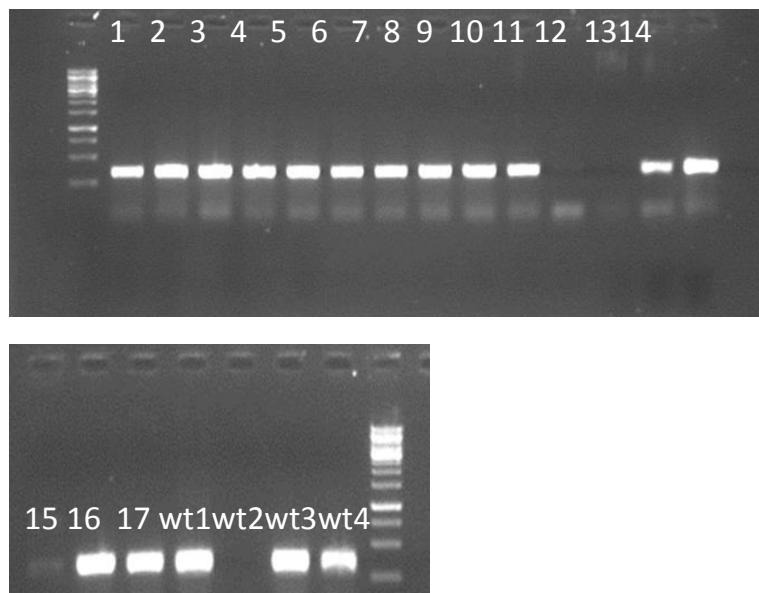
SUPPL. Fig. 3. PCR using 35BR & LTRF to test the incidence of the *Tnt1* border in the predicted mutant EF hand family protein locus within *hypn* mutated individual and wild type



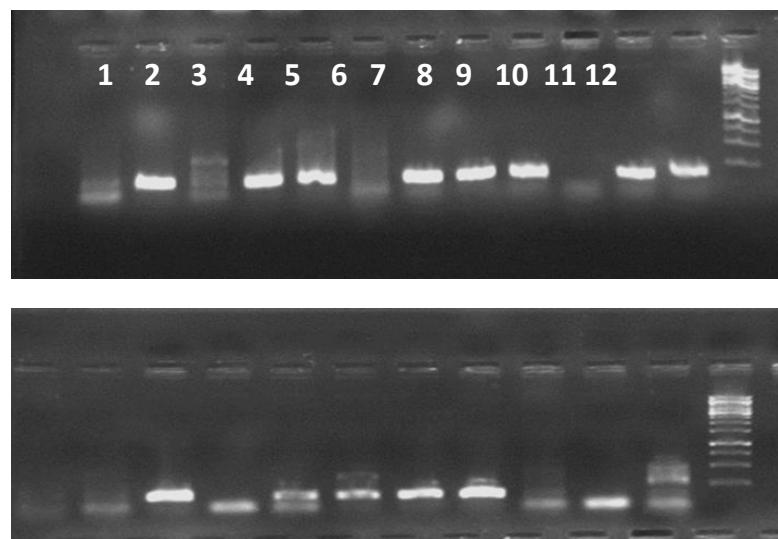
SUPPL. Fig. 4. PCR using 9ER & LTR4 to test the incidence of the *Tnt1* border in the predicted mutant (9E) locus within *hypn* mutated individual and wild type collection of *hypn* & R108 of *Medicago* plants



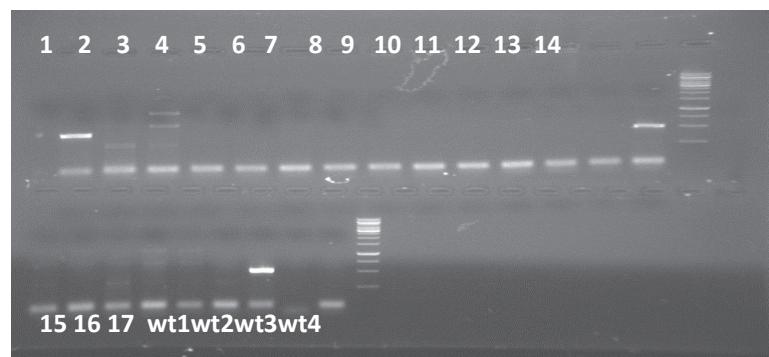
SUPPL. Fig. 5. PCR using 5CF & LTRR to test the incidence of the *Tnt1* border in the predicted mutant Polygalacturonase-1 non-catalytic locus within *hypn* mutated individual and wild type collection of *hypn* & R108 of *Medicago* plants



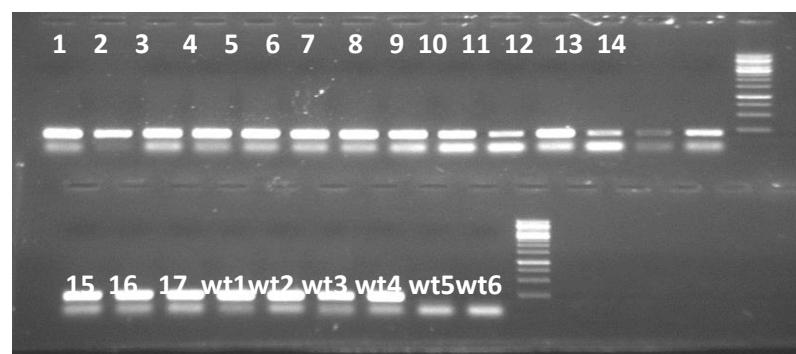
SUPPL. Fig. 6. PCR using 25CR & LTR6 to test the incidence of the *Tnt1* border in the predicted mutant locus Malonyl-CoA isoflavone 7-O-glucoside-6'-O-malonyltransferase within *hypn* mutated individual and wild type collection of *hypn* & R108 of *Medicago* plants



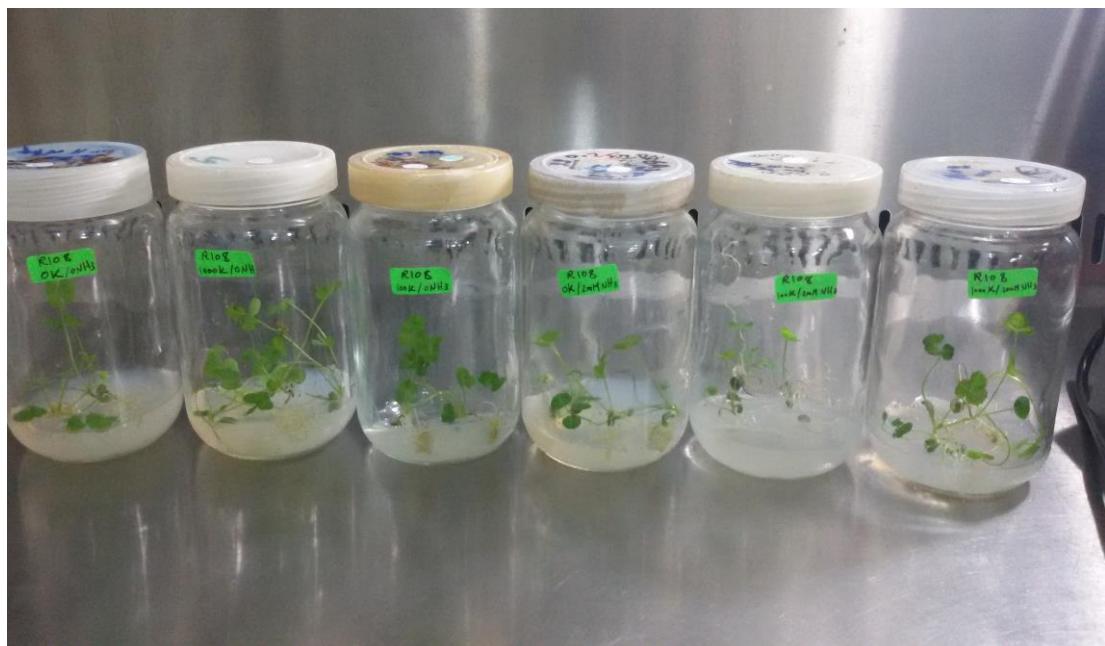
SUPPL. Fig. 7. PCR using G18R & LTR4 to test the incidence of the *Tnt1* border in the predicted mutant locus (G18) within *hypn* mutated individual and wild type collection of *hypn* & R108 of *Medicago* plants



SUPPL. Fig. 8. PCR using H22F & LTR4 to test the incidence of the *Tnt1* border in the predicted mutant locus Dopamine beta-monoxyxygenase within *hypn* mutated individual and wild type collection of *hypn* & R108 of *Medicago* plants



SUPPL. Fig. 9. *Tnt1* border incidents in all akt1 F2 entities showing mutation phenotype and about 2/3 of entities showing wild typephen



SUPPL. Fig. 10. *akt1* & R108 growing on different K-limiting media and K-limiting media combined with NH₃ non AKT1 channel-inhibitor