



Figure S1. The vector map of Fu39-2-*GmFTL4pro:Gus*

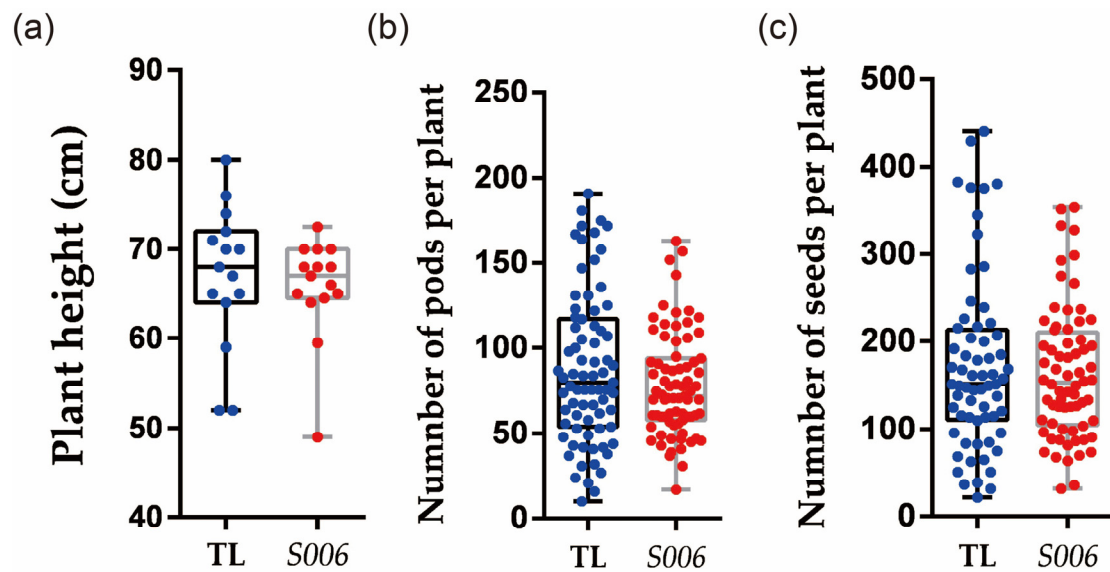


Figure S2. Comparative analysis of the plant height, number of pods per plant and number of seeds per plant between the *S006* mutant and WT. (a) No significant difference was shown in plant height between the *S006* mutant and wild type; (b) no significant difference was shown in number of pods per plant between the *S006* mutant and wild type; (c) no significant difference was shown in number of seeds per plant between the *S006* mutant and wild type.

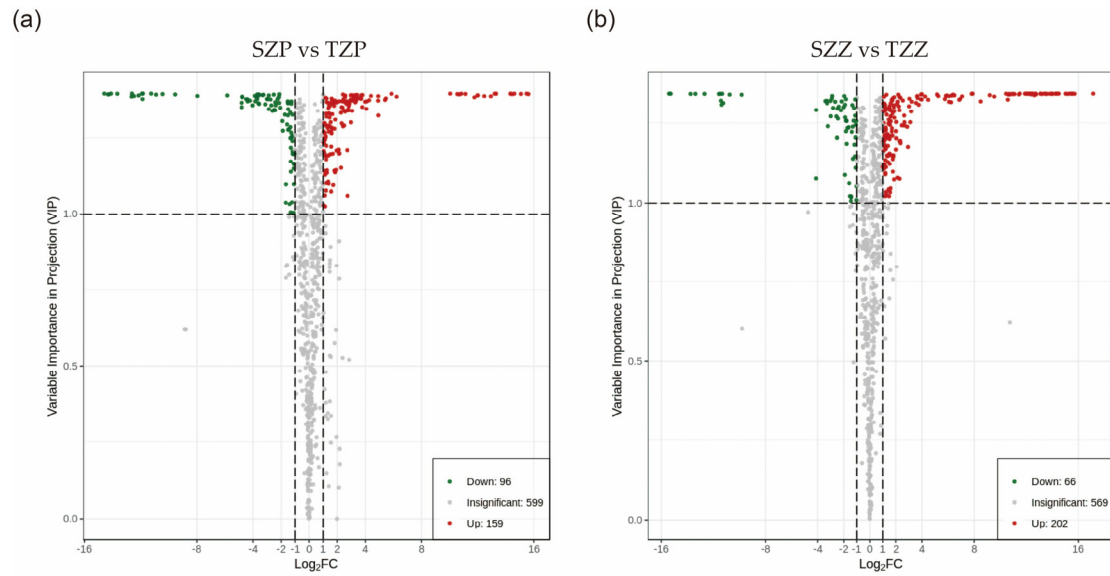


Figure S3. Volcano plots of differential metabolites of SZP vs. TZP and SZZ vs. TZZ. (a) A volcano plot of differential metabolites of SZP vs. TZP; (b) a volcano plot of differential metabolites of SZZ vs. TZZ.

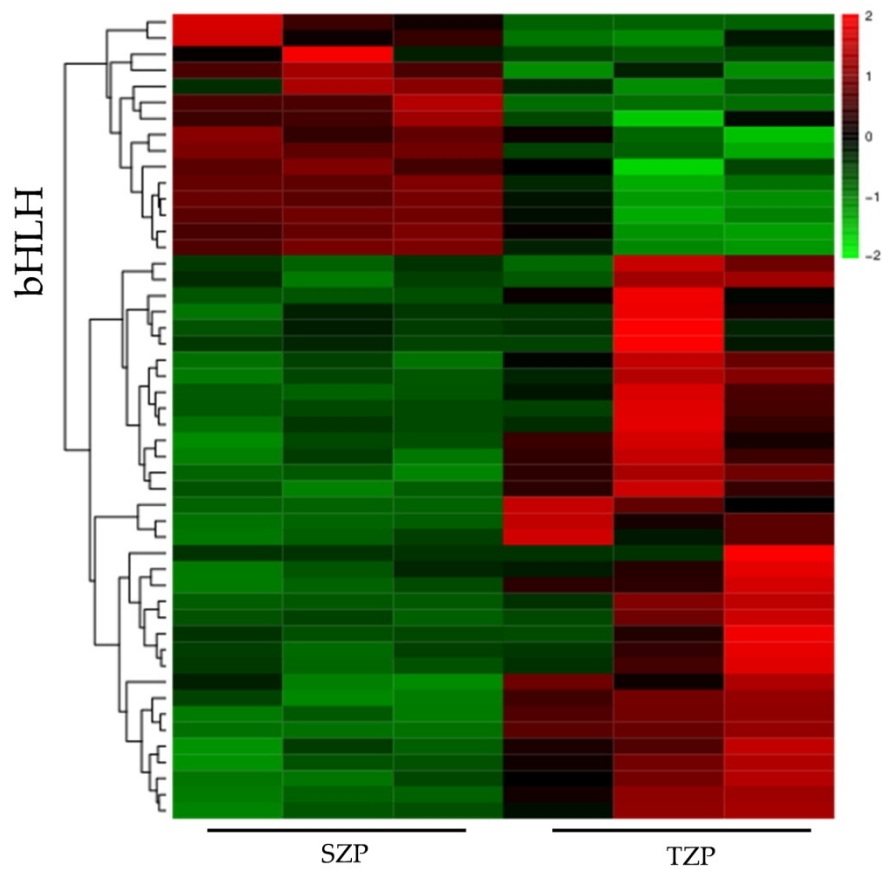


Figure S4. The bHLH transcriptional factors identified among DEGs.

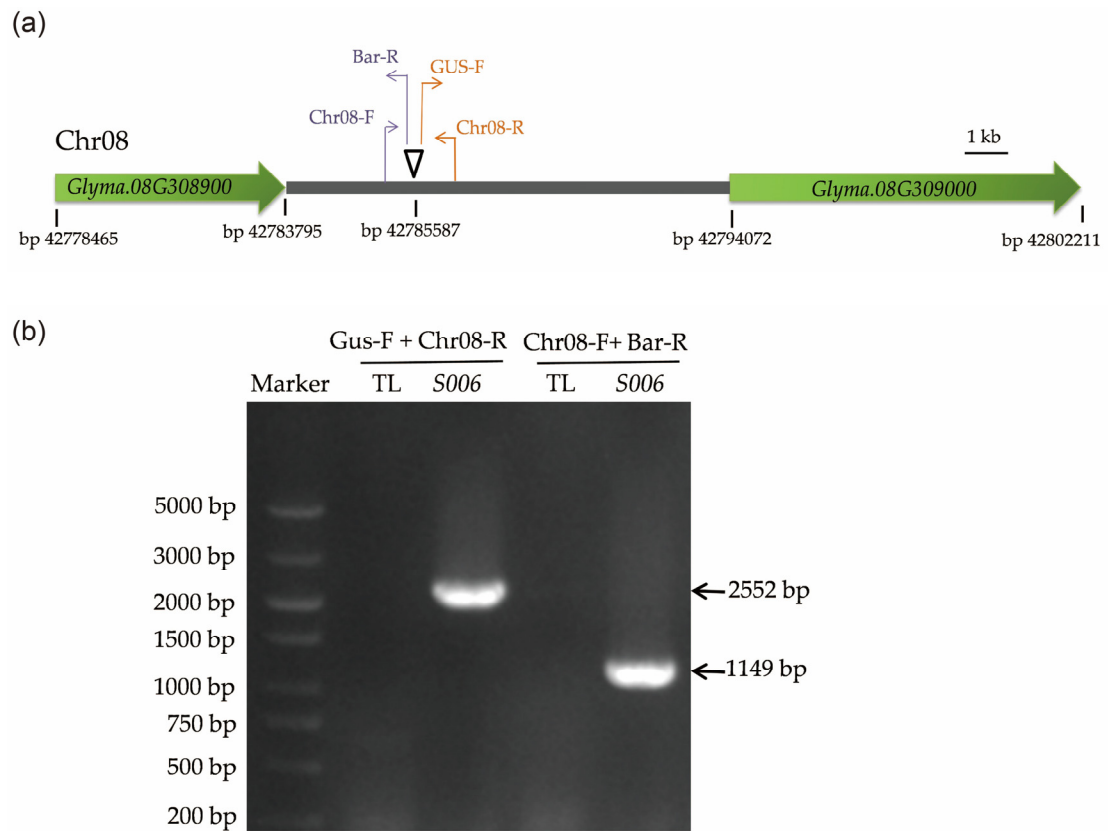


Figure S5. The schematic diagram and identification of the T-DNA insertion in the *S006* mutant. (a) The schematic diagram for the T-DNA insertion in the *S006* mutant; (b) gel determination for the T-DNA insertion in the *S006* mutant.