

番茄转录调控因子基因Pti5植物表达载体的构建及其转化烟草的研究 Construction of a Plant Expression Vector with Tomato Transcription Factor Gene Pti5 and Studies on Transgenic Tobaccos

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摘要 本实验构建了含有CaMV35S启动子控制下的Pti5-VP16基因的植物双元表达载体pBI121UCH1。通过根癌农杆菌叶盘转化法, 将Pti5-VP16基因导入烟草SRI中, 经卡那霉素筛选, 获得了抗性植株。经PCR和Southern印迹分析, 表明抗性植株中整合了Pti5-VP16基因, 经抗病性鉴定转基因烟草植株的抗病性明显提高。

Abstract: The plasmid pBI121UCH1 carrying Pti5-VP16 gene under the control of the cauliflower mosaic virus 35s promoter was constructed. Leaf segments of tobacco SRI were infected by *Agrobacterium tumefaciens* EHA105 with plasmid pBI121UCH1, from which kanamycin resistant plants were obtained. PCR and Southern analysis proved that the Pti5-VP16 gene was integrated into the genomes of the tobacco plants. The disease resistance assay showed that the disease resistance was enhanced in the transgenic tobacco plants.

关键词 [Pti5-VP16基因](#) [表达载体](#) [转化](#) [烟草](#) **Key words** [Pti5-VP16 gene](#) [expression vector](#) [transgenic tobacco](#)

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