

# THIẾT KẾ VECTOR NHỊ THỂ MANG GEN MÃ HÓA LIPID TRANSFER PROTEIN 2 (LTP2) PHÂN LẬP TỪ ĐẬU XANH (VIGNA RADIATA. WILCZEK)

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## TÓM TẮT:

Lipid-transfer proteins (LTPs) are basic, 9-kDa proteins present in high amounts in higher plants. LTPs can enhance the in vitro transfer of phospholipids between membranes and can bind acyl chains. LTPs secretion and location in the cell wall were suggested that LTPs play roles in cutin formation, embryogenesis and the response of plants to droughty conditions. In this study, the gene encoding LTP2 isolated from mRNA of mungbean cultivar Myduc-Hanoi (HN2) was used to design binary vector carrying 35S - LTP - cmc - KDEL - NOS (pCB301 - LTP) construct. This cassette was transformed into tobacco via *Agrobacterium tumefaciens*. The presence of LTP gene in transgenic tobacco plants was confirmed by PCR using specific primers. The result showed that there were 6/6 lines of transgenic tobacco plants had positive PCR product which is 350 bp in size corresponding to this of LTP gene. These results lead to further studies of LTP gene overexpression and analysis of drought tolerance in transgenic tobacco plants. Keywords: mungbean, LTP, vector, transgenic, PCR, tobacco