

TÁCH DÒNG GEN CYSTATIN II PHÂN LẬP TỪ MỘT SỐ MẪU NGÔ ĐỊA PHƯƠNG VIỆT NAM

Vì Thị Xuân Thủy 1 , Hồ Mạnh Tường 2 , Lê Văn Sơn 2 , Nguyễn Vũ Thanh Thanh 3 , Chu Hoàng
Mậu

TÓM TẮT:

Cystatin is the protein inhibitor of cysteine proteinase activity, it roles as a substrate into the active center of cysteine proteinase, that prevents the other substrate proteins go into. In this report, we present the results of isolated, cloning and determine the cystatin II gene sequence of four local maize samples (SL, LC1, LC2, LC3) and CP888 maize cultivar. The coding region of cystatin II gene isolated from some maize samples had the size of 405 nucleotides, coding 134 amino acids. The comparative results of amino acid sequence of deductive protein of five maize samples and cystatin (code number D38130) in GenBank showed has 22 different amino acids, but found no difference in the CY region. The cystatin II gene be used to development of transgenic vector aims at improve resistance to maize weevil. Keyword: *Zea mays*, cystatin, cysteine proteinase, cystatin II gene, maize weevil.