CONSTRUCTION OF VECTOR CARYING RNAI STRUCTURES CONTAINED CP GENE FRAGMENT FROM SMV AND BYMV

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TÓM TẮT:

Soybean mosaic virus (SMV) and Bean yellow mosaic virus (BYMV) are two typical virus types causing mosaic disease in soybeans. Currently in soybean production just at measures to prevent and that no drugs for treatment two viruses. RNAi is considered a modern technique and effective against viral diseases in plants. Effectiveness of RNAi technique shown in creating virus-resistant crops by transgenic technique with the genes derived from the virus. With the aim of improving resistance to SMV and BYMV of Vietnam soybean cultivars by transgenic techniques, in this study we have successfully designed vector carrying RNAi structure (pGWSMV-BYMV-CPi) contained CP gene fragment from SMV and BYMV. CPi is conservative sequences of CP gene SMV and BYMV have size is 573bp. Strains A.tumefaciens carrying structure pGWSMV-BYMV-CPi has been created to use infect into lesion cotyledon node, for the purpose of generate transgenic soybean lines with resistance to SMV and BYMV.