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(54) Title: MODIFIED *E. COLI* ENTEROTOXIN II SIGNAL PEPTIDE AND A MICROORGANISM EXPRESSING A FUSION PROTEIN OF SAID PEPTIDE AND A HETEROLOGOUS PROTEIN

(57) Abstract

A heterologous protein is produced by: (i) culturing a microorganism transformed with an expression vector comprising a gene encoding a modified *E. coli* enterotoxin II signal peptide fused with the heterologous protein to produce and secrete the heterologous protein to periplasm, said modified *E. coli* enterotoxin II signal peptide being obtained by replacing at least one of the 2nd, 4th, 5th, 12th, 20th and 22nd amino acids of *E. coli* enterotoxin II signal peptide of the following amino acid sequence (SEQ ID NO: 1) with another amino acid, with the proviso that at least one of the 2nd and 4th amino acid of the modified peptide is lysine; and (ii) recovering the heterologous protein from the periplasm.

