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(54) Title: CODON-OPTIMIZED NUCLEIC ACID ENCODING THE FIX PROTEIN

(57) Abstract: The present application relates to the fields of genetics, gene therapy, and molecular biology. More specifically, the present invention relates to an isolated codon-optimized nucleic acid that encodes the FIX (coagulation factor IX) protein, an expression cassette and a vector based thereon, as well as an AAV5 (adeno-associated virus serotype 5)-based recombinant virus for increasing the expression of the FIX gene in target cells, and use thereof.



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