

ABSTRACT

A pharmaceutical composition comprising a nucleic acid construct and the medical use thereof. Specifically, the present invention relates to a lipid nanoparticle comprising a nucleic acid construct represented by formula I, which can achieve highly efficient delivery of a exogenous target gene, allowing the exogenous target gene to be highly efficiently and rapidly expressed in the body. The present invention has the advantages of no gene integration risk and being easy to scale up to an industrial level, is a more ideal treatment approach than naked plasmids, and can be used as a gene therapy drug for a plurality of diseases.