

Title (en)

POLYNUCLEOTIDE VACCINES EXPRESSING CODON OPTIMIZED HIV-1 NEF AND MODIFIED HIV-1 NEF

Title (de)

KODON OPTIMIERTE HIV-1 NEF UND MODIFIZIERTES HIV-1 NEF EXPRIMIERENDE POLYNUCLEOTIDIMPFSTOFFE

Title (fr)

VACCINS POLYNUCLEOTIDIQUES EXPRIMANT LA PROTEINE NEF DE VIH-1 OPTIMISEE PAR CODONS ET PROTEINE NEF DE VIH-1 MODIFIEE

Publication

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Application

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Abstract (en)

[origin: WO0143693A2] Pharmaceutical compositions which comprise HIV Nef DNA vaccines are disclosed, along with the production and use of these DNA vaccines. The nef-based DNA vaccines of the invention are administered directly introduced into living vertebrate tissue, preferably humans, and express the HIV Nef protein or biologically relevant portions thereof, inducing a cellular immune response which specifically recognizes human immunodeficiency virus-1 (HIV-1). The DNA molecules which comprise the open reading frame of these DNA vaccines are synthetic DNA molecules encoding codon optimized HIV-1 Nef and derivatives of optimized HIV-1 Nef, including nef modifications comprising amino terminal leader peptides, removal of the amino terminal myristylation site, and/or modification of the Nef dileucine motif. These modifications may effect wild type characteristics of Nef, such as myristylation and down regulation of host CD4.

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