

Title (en)

POXVIRUS-BASED VECTORS PRODUCED BY NATURAL OR SYNTHETIC DNA AND USES THEREOF

Title (de)

DURCH NATÜRLICHE ODER SYNTHETISCHE DNA HERGESTELLTE AUF POXVIREN BASIERENDE VEKTOREN UND DEREN VERWENDUNGEN

Title (fr)

VECTEURS À BASE DE POXVIRUS PRODUITS PAR DE L'ADN NATUREL OU SYNTHÉTIQUE ET LEURS UTILISATIONS

Publication

EP 4100514 A2 20221214 (EN)

Application

EP 21750239 A 20210202

Priority

- US 202062969628 P 20200203
- US 202063113803 P 20201113
- US 2021016247 W 20210202

Abstract (en)

[origin: WO2021158565A2] Disclosed are methods of producing poxvirus-based vectors or recombinant poxvirus-based vectors from naturally derived, chemically synthesized DNA fragments, or a combination of naturally derived and chemically synthesized DNA fragments. One or more DNA sequences encoding one or more antigens, subunits or fragments thereof or other heterologous gene sequences are inserted in one or more poxvirus insertion sites in one or more DNA fragments. The methods include transfecting a host cell with one or more circular or linear DNA fragments such that a poxvirus or recombinant poxvirus is reconstituted in the host cell, the reconstituted poxvirus or recombinant poxvirus comprising the genome of a desired poxvirus. Also disclosed are poxviruses or recombinant poxviruses produced by the technology and uses thereof.

IPC 8 full level

C12N 5/10 (2006.01); **C12N 15/86** (2006.01); **C12N 15/863** (2006.01); **C12Q 1/68** (2018.01)

CPC (source: EP IL KR US)

A61K 39/001151 (2018.08 - EP IL KR US); **A61K 39/12** (2013.01 - EP KR); **A61P 31/10** (2018.01 - KR); **A61P 35/00** (2018.01 - KR); **C12N 15/86** (2013.01 - EP IL KR); **C12N 15/902** (2013.01 - KR); **A61K 2039/5256** (2013.01 - EP IL KR); **A61K 2039/70** (2013.01 - EP IL KR); **C12N 2710/16134** (2013.01 - EP IL KR); **C12N 2710/24143** (2013.01 - EP IL KR); **C12N 2710/24152** (2013.01 - EP); **C12N 2770/20034** (2013.01 - EP IL KR); **C12N 2800/22** (2013.01 - KR); **C12N 2800/50** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2021158565 A2 20210812; **WO 2021158565 A3 20210916**; AU 2021217073 A1 20220818; BR 112022014738 A2 20221011; CA 3168836 A1 20210812; CN 115397998 A 20221125; EP 4100514 A2 20221214; EP 4100514 A4 20240612; IL 294926 A 20220901; JP 2023512294 A 20230324; KR 20220148823 A 20221107; MX 2022009200 A 20230104

DOCDB simple family (application)

US 2021016247 W 20210202; AU 2021217073 A 20210202; BR 112022014738 A 20210202; CA 3168836 A 20210202; CN 202180025623 A 20210202; EP 21750239 A 20210202; IL 29492622 A 20220720; JP 2022547055 A 20210202; KR 20227030182 A 20210202; MX 2022009200 A 20210202