

Title (en)
SWINE INFLUENZA A VIRUS VACCINE COMPRISING A NUCLEIC ACID CONSTRUCT ENCODING ANTIGENS OF SPECIFIC VIRUS LINEAGES

Title (de)
SCHWEINEINFLUENZA-A-VIRUS-IMPfstoff mit einem Nukleinsäurekonstrukt zur Codierung von Antigenen spezifischer Viruslinien

Title (fr)
Vaccin contre le virus de la grippe porcine comprenant une construction d'acide nucléique codant pour des antigènes de lignées de virus spécifiques

Publication
EP 4168428 A1 20230426 (EN)

Application
EP 21733126 A 20210618

Priority
• EP 20181106 A 20200619
• EP 2021066548 W 20210618

Abstract (en)
[origin: WO2021255221A1] The present invention relates to a nucleic acid construct that encodes a first Swine influenza A (IAV- S) hemagglutinin (HA) antigen of the Scot/94 lineage from strain A/swine/Italy/3033-1/2015 (H1N2) or an amino acid sequence having at least 85% sequence identity thereof and a second Swine influenza A (IAV-S) hemagglutinin (HA) antigen of the Eurasian avian-like (EA) lineage from strain A/swine/Italy/28762-3/2013 (H1N1) or an amino acid sequence having at least 90% sequence identity thereof, and a nucleic acid construct that encodes a first IAV-S HA antigen of the Gent/84 lineage from strain A/swine/Italy/240849/2015 (H3N2) or an amino acid sequence having at least 95% sequence identity thereof and a second IAV-S HA antigen of pandemic09 (pdm09) lineage from strain A/swine/England/373/2010 (H1N1) or an amino acid sequence having at least 95% sequence identity thereof. In other embodiments, the present invention relates to RNA replicon particles comprising one or both nucleic acid constructs, an immunogenic composition, such as a vaccine, which may be used against influenza A virus infection, and comprising the replicon particles. Further provided are methods of making the vaccine and use of the vaccine.

IPC 8 full level
A61P 31/16 (2006.01); **C07K 14/11** (2006.01)

CPC (source: EP)
A61P 31/16 (2017.12); **C07K 14/11** (2013.01)

Citation (search report)
See references of WO 2021255221A1

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 2021255221 A1 20211223; CN 115836082 A 20230321; EP 4168428 A1 20230426; JP 2023530135 A 20230713

DOCDB simple family (application)
EP 2021066548 W 20210618; CN 202180043379 A 20210618; EP 21733126 A 20210618; JP 2022577345 A 20210618