

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

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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.

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