

Title (en)

VACCINE COMPOSITIONS COMPRISING LIVE BACTERIAL VECTORS FOR PROTECTION AGAINST YERSINIA PESTIS INJECTION

Title (de)

Auf bakteriellen Vektoren basierende Vakzine, die Schutz gegen Infektionen durch Yersinia pestis gewährt

Title (fr)

COMPOSITIONS POUR VACCINS COMPRENANT DES VECTEURS BACTERIENS VIVANTS POUR LA PROTECTION CONTRE L'INFECTION A YERSINIA PESTIS

Publication

**EP 0741786 A1 19961113 (EN)**

Application

**EP 95904620 A 19941223**

Priority

- GB 9402818 W 19941223
- GB 9326425 A 19931224

Abstract (en)

[origin: WO9518231A1] Novel DNA constructs are provided that are capable of transforming microorganisms such that they can be used as live or attenuated vaccines which induce such immune response at mucosal surfaces. Further provided are such transformed microorganisms per se and vaccine compositions containing them. Preferred constructs of the invention are capable of transforming microorganisms such that they express F1 based protein while retaining a capability to establish themselves in human or animal gut environment. Several constructs have been identified that are capable of transforming gut dwelling organisms such as *S. typhimurium* or *S. typhi* to enable F1 antigen production, but most of these affect the organism such that it can no longer function effectively in the gut, at least in so far as it cannot express the antigen e.g. being unstable and losing plasmid.

IPC 1-7

**C12N 15/31**; **C12N 15/74**; **C12N 1/21**; **A61K 39/02**

IPC 8 full level

**C12N 15/09** (2006.01); **A61K 39/02** (2006.01); **A61P 31/04** (2006.01); **C07K 14/24** (2006.01); **C12N 1/21** (2006.01); **C12N 15/31** (2006.01); **C12N 15/74** (2006.01); **A61K 39/00** (2006.01)

CPC (source: EP)

**A61P 31/04** (2018.01); **C07K 14/24** (2013.01); **C12N 15/74** (2013.01); **A61K 39/00** (2013.01); **Y02A 50/30** (2018.01)

Designated contracting state (EPC)

AT BE CH DE DK ES FR GB GR IE IT LI LU NL PT SE

DOCDB simple family (publication)

**WO 9518231 A1 19950706**; AU 1322295 A 19950717; CA 2179639 A1 19950706; EP 0741786 A1 19961113; GB 9326425 D0 19940223; JP H09507028 A 19970715

DOCDB simple family (application)

**GB 9402818 W 19941223**; AU 1322295 A 19941223; CA 2179639 A 19941223; EP 95904620 A 19941223; GB 9326425 A 19931224; JP 51765895 A 19941223