

Title (en)

RECOMBINANT VACCINE AGAINST BOTULINUM NEUROTOXIN

Title (de)

REKOMBINANTER IMPFSTOFF GEGEN BOTULINUM-NEUROTOXIN

Title (fr)

VACCIN DE RECOMBINAISON CONTRE LA NEUROTOXINE BOTULIQUE

Publication

EP 1180999 A4 20050330 (EN)

Application

EP 00932296 A 20000512

Priority

- US 0012890 W 20000512
- US 13386699 P 19990512
- US 13387399 P 19990512
- US 13386999 P 19990512
- US 13386599 P 19990512
- US 13386899 P 19990512
- US 13386799 P 19990512
- US 14619299 P 19990729

Abstract (en)

[origin: WO0067700A2] This invention is directed to preparation and expression of synthetic genes encoding polypeptides containing protective epitopes of botulinum neurotoxin (BoNT). The invention is also directed to production of immunogenic peptides encoded by the synthetic genes, as well as recovery and purification of the immunogenic peptides from recombinant organisms. The invention is also directed to methods of vaccination against botulism using the expressed peptides.

IPC 1-7

C12N 15/11; C12N 15/63; C07H 21/04; C07K 5/00

IPC 8 full level

C12N 15/09 (2006.01); **A61K 38/00** (2006.01); **A61K 39/00** (2006.01); **A61K 39/08** (2006.01); **A61P 25/00** (2006.01); **A61P 31/04** (2006.01); **A61P 37/00** (2006.01); **C07K 14/33** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12P 21/02** (2006.01); **C12R 1/19** (2006.01); **C12R 1/84** (2006.01)

CPC (source: EP US)

A61K 39/08 (2013.01 - EP); **A61P 25/00** (2018.01 - EP); **A61P 31/04** (2018.01 - EP); **A61P 37/00** (2018.01 - EP); **C07K 14/33** (2013.01 - EP); **A61K 39/00** (2013.01 - EP US); **Y02A 50/30** (2018.01 - EP)

Citation (search report)

- [X] BYRNE MICHAEL P ET AL: "Purification, potency, and efficacy of the botulinum neurotoxin type A biding domain from *Pichia pastoris* as a recombinant vaccine candidate", INFECTION AND IMMUNITY, vol. 66, no. 10, October 1998 (1998-10-01), pages 4817 - 4822, XP002301389, ISSN: 0019-9567
- [X] CLAYTON M A ET AL: "Protective vaccination with a recombinant fragment of Clostridium botulinum neurotoxin serotype A expressed from a synthetic gene in *E. coli*", INFECTION AND IMMUNITY, AMERICAN SOCIETY FOR MICROBIOLOGY. WASHINGTON, US, vol. 63, no. 7, July 1995 (1995-07-01), pages 2738 - 2742, XP002110803, ISSN: 0019-9567

Designated contracting state (EPC)

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

DOCDB simple family (publication)

WO 0067700 A2 20001116; WO 0067700 A3 20010208; AU 5003500 A 20001121; AU 783450 B2 20051027; CA 2371279 A1 20001116; EP 1180999 A2 20020227; EP 1180999 A4 20050330; JP 2004512004 A 20040422

DOCDB simple family (application)

US 0012890 W 20000512; AU 5003500 A 20000512; CA 2371279 A 20000512; EP 00932296 A 20000512; JP 2000616731 A 20000512