

Title (en)

DONOR STRAND COMPLEMENTED PILIN AND ADHESIN BROAD-BASED VACCINES

Title (de)

IMPFSTOFFE BASIEREND AUF ZUSAMMENSETZUNGEN AUS PILIN UND DIESEN KOMPLEMENTIERENDEN POLYPEPTIDE

Title (fr)

VACCINS DE PILINE ET D'ADHESINE COMPLETES PAR UN BRIN DONNEUR POUR PRODUCTION A GRANDE ECHELLE

Publication

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Application

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Abstract (en)

[origin: WO0104148A2] Modified polypeptides containing a pilus-protein sequence and a donor complementary sequence are disclosed, as well as complexes formed of a modified polypeptide and a pilin, or pilus-protein. Also disclosed are methods of using these novel polypeptides as a means of preventing and/or treating bacterial induced diseases, especially those caused by enterobacteria such as *Escherichia coli*. Methods of employing these modified pilus-derived polypeptides and complexes as vaccines and for generating antibodies for further study as well as for clinical purposes are also disclosed herein. In addition, processes for large scale production of antibacterial vaccines containing said polypeptides and complexes are also described.

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Citation (examination)

- SOTO ET AL: "Periplasmic chaperone recognition motif of subunits mediates quaternary interactions in the pilus.", EMBO J., vol. 17, no. 21, 1998, pages 6155 - 6167
- LANGERMANN ET AL: "Prevention of Mucosal Escherichia coli Infection by FimH-Adhesin-Based Systemic Vaccination", SCIENCE, vol. 276, 25 April 1997 (1997-04-25), pages 607 - 611

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