

## Title (en)

COMPOSITIONS AND METHODS INVOLVING AN ESSENTIAL STAPHYLOCOCCUS AUREUS GENE AND ITS ENCODED PROTEIN

## Title (de)

ZUSAMMENSETZUNGEN UND VERFAHREN UNTER VERWENDUNG EINES ESSENTIELLEN STAPHYLOCOCCUS AUREUS GENS UND DESSEN KODIERTEM PROTEIN

## Title (fr)

COMPOSITIONS ET METHODES CONCERNANT UN GENE ESSENTIEL DE STAPHYLOCOCCUS AUREUS ET SA PROTEINE CODEE

## Publication

**EP 1242611 A2 20020925 (EN)**

## Application

**EP 00991434 A 20001221**

## Priority

- US 0035180 W 20001221
- US 47051299 A 19991222
- US 68995200 A 20001012

## Abstract (en)

[origin: WO0146383A2] This invention relates to newly identified polynucleotides and polypeptides, their production and uses, as well as their variants, agonists and antagonists, and their uses. In particular, the invention relates to polynucleotides and polypeptides of a *Staphylococcus aureus* (S. aureus) DnaI related protein, as well as its variants. Also, the invention relates to a specific interaction between the *S. aureus* DnaI related protein or specific regions thereof, and a growth-inhibitory protein encoded by the *S. aureus* bacteriophage 77 genome. The phage protein interacts with amino acids 150 - 313 of *S. aureus* DnaI polypeptide, and the invention relates to the use of this interaction target site as the basis of drug screening assays. In addition, the invention relates to polynucleotides and polypeptides of a protein complex containing *S. aureus* DnaI and DnaC related proteins, as well as their variants.

## IPC 1-7

**C12P 21/06**; G01N 33/53; C07K 14/00; C07K 16/00

## IPC 8 full level

**G01N 33/50** (2006.01); **A61K 38/00** (2006.01); **A61K 39/395** (2006.01); **A61K 45/00** (2006.01); **A61K 48/00** (2006.01); **A61P 31/04** (2006.01); **C07H 21/00** (2006.01); **C07K 14/31** (2006.01); **C12N 15/09** (2006.01); **C12P 21/02** (2006.01); **C12Q 1/02** (2006.01); **C12Q 1/18** (2006.01); **C12Q 1/68** (2006.01); **C12Q 1/70** (2006.01); **G01N 33/15** (2006.01); **G01N 33/53** (2006.01); **G01N 33/543** (2006.01); **G01N 33/566** (2006.01); **G01N 33/569** (2006.01); **A61K 39/00** (2006.01)

## CPC (source: EP US)

**A61P 31/04** (2018.01 - EP); **C07K 14/31** (2013.01 - EP); **A61K 38/00** (2013.01 - EP); **A61K 39/00** (2013.01 - EP US); **A61K 48/00** (2013.01 - EP)

## Designated contracting state (EPC)

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

## DOCDB simple family (publication)

**WO 0146383 A2 20010628**; **WO 0146383 A3 20020103**; **WO 0146383 A9 20020711**; AU 3266201 A 20010703; AU 778782 B2 20041223; CA 2396674 A1 20010628; CA 2396674 C 20060704; EP 1242611 A2 20020925; EP 1242611 A4 20040811; JP 2003517833 A 20030603

## DOCDB simple family (application)

**US 0035180 W 20001221**; AU 3266201 A 20001221; CA 2396674 A 20001221; EP 00991434 A 20001221; JP 2001546881 A 20001221