Title (en)

USES OF SPATIAL CONFIGURATION TO MODULATE PROTEIN FUNCTION

Title (de)

VERWENDUNG DER RÄUMLICHEN KONFIGURATION ZUR MODULIERUNG DER PROTEINFUNKTION

Title (fr)

UTILISATION D'UNE CONFIGURATION SPATIALE POUR MODULER UNE FONCTION DE PROTEINE

Publication

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Application

EP 04782529 A 20040826

Priority

- US 2004028068 W 20040826
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- US 49892303 P 20030828
- IN 279MU2004 A 20040305
- IN 280MU2004 A 20040305

Abstract (en)

[origin: WO2005021777A2] This invention provides a set of methods for modulating protein spatial configuration. First, select the amino-acid codon for encoding the target protein according to host codon usage. Second, choose combinations which can modulate the spatial configuration and construct into different vectors which can transfect a series of hosts. Third, choose the vector promoter by monitoring a combination of base pairs after combining the code sequence of the promoter and the target protein. Finally, choose the appropriate expression host to express the target protein, refold and purify, measure the activity and spatial configuration.

IPC 8 full level

C07K 14/00 (2006.01); **C07K 1/00** (2006.01); **C12N 1/00** (2006.01); **C12N 5/10** (2006.01); **C12N 15/11** (2006.01); **C12N 15/63** (2006.01); **C12N 15/67** (2006.01); **C12P 21/02** (2006.01); **C12Q 1/68** (2006.01)

IPC 8 main group level

A61K (2006.01); **C12Q** (2006.01)

CPC (source: EP KR)

A61P 1/16 (2017.12 - EP); **A61P 11/00** (2017.12 - EP); **A61P 31/12** (2017.12 - EP); **A61P 31/16** (2017.12 - EP); **A61P 31/20** (2017.12 - EP); **A61P 35/00** (2017.12 - EP); **A61P 37/02** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **C07K 1/00** (2013.01 - EP KR); **C07K 14/00** (2013.01 - KR); **C07K 14/56** (2013.01 - EP); **C12N 15/67** (2013.01 - EP); C07K 2299/00 (2013.01 - EP)

Citation (search report)

- [X] WO 02080958 A1 20021017 - SICHUAN BIOTECHNOLOGY RES CT [CN], et al & EP 1371373 A1 20031217 - SICHUAN BIOTECHNOLOGY RES CT [CN]
- See references of WO 2005021777A2

Citation (examination)

- AMATO I: "Silent no longer", CHEMICAL AND ENGINEERING NEWS, vol. 85, no. 4, 22 January 2007 (2007-01-22), pages 38 - 40
- ANONYMOUS: "Infergen", 30 November 1998 (1998-11-30)

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DOCDB simple family (publication)

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