

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  
**EP 1670817 A4 20080716 (EN)**

Application  
**EP 04782529 A 20040826**

Priority

- US 2004028068 W 20040826
- US 49844903 P 20030828
- US 49878503 P 20030828
- 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)

Designated contracting state (EPC)  
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2005021777 A2 20050310; WO 2005021777 A3 20050512**; AU 2004269390 A1 20050310; AU 2004279350 A1 20050421; AU 2004279350 B2 20110310; CA 2535902 A1 20050310; CA 2535982 A1 20050421; CA 2535982 C 20161129; EP 1663110 A2 20060607; EP 1663110 A4 20080716; EP 1663110 B1 20131218; EP 1670817 A2 20060621; EP 1670817 A4 20080716; EP 2325202 A1 20110525; EP 2325202 B1 20141022; HK 1091756 A1 20070126; HK 1158231 A1 20120914; JP 2007503812 A 20070301; JP 2007516214 A 20070621; JP 2011083292 A 20110428; JP 2012162567 A 20120830; JP 5663768 B2 20150204; JP 5709800 B2 20150430; KR 20060130009 A 20061218; KR 20060133949 A 20061227; PL 1663110 T3 20140731; PL 2325202 T3 20150331; WO 2005034853 A2 20050421; WO 2005034853 A3 20060427

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**US 2004028068 W 20040826**; AU 2004269390 A 20040826; AU 2004279350 A 20040826; CA 2535902 A 20040826; CA 2535982 A 20040826; EP 04782529 A 20040826; EP 04809634 A 20040826; EP 10193126 A 20040826; HK 06113460 A 20061207; HK 11112807 A 20111125; JP 2006524916 A 20040826; JP 2006524917 A 20040826; JP 2011011325 A 20110121; JP 2012121307 A 20120528; KR 20067003699 A 20060223; KR 20067003700 A 20060223; PL 04809634 T 20040826; PL 10193126 T 20040826; US 2004028067 W 20040826