

Title (en)

INTERACTING POLYPEPTIDE COMPRISING A HEPTAPEPTIDE PATTERN AND A CELLULAR PENETRATION DOMAIN

Title (de)

WECHSELWIRKENDE POLYPEPTIDE MIT HEPTAPEPTIDMUSTER UND EINER ZELLULÄREN PENETRATIONSDOMÄNE

Title (fr)

POLYPEPTIDE D'INTERACTION COMPRENANT UN MOTIF HEPTAPEPTIDIQUE ET UN DOMAINE DE PENETRATION CELLULAIRE

Publication

EP 1668037 A1 20060614 (FR)

Application

EP 04787492 A 20040930

Priority

- FR 2004002479 W 20040930
- FR 0311463 A 20030930

Abstract (en)

[origin: WO2005033147A1] The invention relates to an interacting polypeptide consisting of or comprising a heptapeptide pattern of sequence X1X2X3X4X5X6X7 and a transduction domain, characterized in that it is a chimera polypeptide, the amino acid X7 is located between 5 and 35 amino acids of the C-terminal end of said polypeptide, and that the domain (b) is situated in C-terminal relative to pattern (a). The invention also relates to screening methods for identifying interacting polypeptides capable of modifying the phenotype of a cell and to uses of interacting polypeptides as mentioned in phenotypic screens or for therapeutic purposes. Lastly, the invention concerns interacting polypeptides capable of modifying the function of the HIV-1 Rev viral protein.

IPC 1-7

C07K 19/00; **C12N 15/62**; **C12N 15/09**; **A61K 38/00**; **G01N 33/68**; **C12Q 1/00**

IPC 8 full level

G01N 33/569 (2006.01); **C07K 19/00** (2006.01); **C12Q 1/00** (2006.01); **G01N 33/68** (2006.01)

CPC (source: EP US)

A61P 31/18 (2017.12 - EP); **C07K 19/00** (2013.01 - EP US); **G01N 33/56988** (2013.01 - EP US); **G01N 2500/00** (2013.01 - EP US)

Citation (search report)

See references of WO 2005033147A1

Citation (examination)

- YUAN K ET AL: "Suppression of SARS-CoV entry by peptides corresponding to heptad regions on spike glycoprotein", BIOCHEMICAL AND BIOPHYSICAL RESEARCH COMMUNICATIONS, ACADEMIC PRESS INC. ORLANDO, FL, US, vol. 319, no. 3, 2 July 2004 (2004-07-02), pages 746 - 752, XP004512502, ISSN: 0006-291X, DOI: 10.1016/J.BBRC.2004.05.046
- CRAWFORD MARGARET ET AL: "Peptide aptamers: tools for biology and drug discovery.", BRIEFINGS IN FUNCTIONAL GENOMICS & PROTEOMICS APR 2003 LNKD- PUBMED:15243998, vol. 2, no. 1, April 2003 (2003-04-01), pages 72 - 79, XP007920560, ISSN: 1473-9550
- HOPPE-SEYLER F ET AL: "Peptide aptamers: Powerful new tools for molecular medicine", JOURNAL OF MOLECULAR MEDICINE, SPRINGER VERLAG, DE, vol. 78, no. 8, 1 January 2000 (2000-01-01), pages 426 - 430, XP002413234, ISSN: 0946-2716, DOI: 10.1007/S001090000140

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)

FR 2860237 A1 20050401; **FR 2860237 B1 20060310**; CA 2540520 A1 20050414; EP 1668037 A1 20060614; JP 2008500267 A 20080110; JP 4927546 B2 20120509; US 2006240516 A1 20061026; US 7709606 B2 20100504; WO 2005033147 A1 20050414

DOCDB simple family (application)

FR 0311463 A 20030930; CA 2540520 A 20040930; EP 04787492 A 20040930; FR 2004002479 W 20040930; JP 2006530409 A 20040930; US 39619606 A 20060330