

Title (en)  
RNA INTERFERENCE MEDIATED INHIBITION OF PROLIFERATING CELL NUCLEAR ANTIGEN (PCNA) GENE EXPRESSION USING SHORT INTERFERING NUCLEIC ACID (siNA)

Title (de)  
DURCH RNA-INTERFERENZ VERMITTELTE INHIBIERUNG DER GENEXPRESSON VON PROLIFERATING CELL NUCLEAR ANTIGEN (PCNA) UND VERWENDUNG VON SHORT INTERFERING NUCLEIC ACID (SINA)

Title (fr)  
INHIBITION, INDUITE PAR ADN D'INTERFERENCE, DE L'EXPRESSION GENIQUE D'UN ANTIGENE NUCLEAIRE DE PROLIFERATION CELLULAIRE (PCNA) A L'AIDE D'UN ACIDE NUCLEIQUE A INTERFERENCE COURTE (SINA)

Publication  
**EP 1448580 A4 20050720 (EN)**

Application  
**EP 03716055 A 20030218**

Priority

- US 0304738 W 20030218
- US 35858002 P 20020220
- US 36312402 P 20020311
- US 38678202 P 20020606
- US 40678402 P 20020829
- US 40837802 P 20020905
- US 40929302 P 20020909
- US 40978502 P 20020911
- US 44012903 P 20030115

Abstract (en)  
[origin: WO03070896A2] The present invention concerns methods and reagents useful in modulating proliferating cell nuclear antigen (PCNA) gene expression in a variety of applications, including use in therapeutic, diagnostic, target validation, and genomic discovery applications. Specifically, the invention relates to small nucleic acid molecules, such as short interfering nucleic acid (siNA), short interfering RNA (siRNA), double-stranded RNA (dsRNA), micro-RNA (miRNA), and short hairpin RNA (shRNA) molecules capable of mediating RNA interference (RNAi) against PCNA gene expression. The small nucleic acid molecules are useful in the treatment of cancer or restenosis.

IPC 1-7  
**C12Q 1/68**; **C12P 19/34**; **C12N 15/63**; **C07H 21/02**; **C07H 21/04**

IPC 8 full level  
**C12N 15/113** (2010.01); **C12N 15/115** (2010.01); **A61K 38/00** (2006.01)

CPC (source: EP)  
**C12N 15/113** (2013.01); **C12N 15/115** (2013.01); **C12N 2310/111** (2013.01); **C12N 2310/14** (2013.01); **C12N 2310/315** (2013.01); **C12N 2310/317** (2013.01); **C12N 2310/318** (2013.01); **C12N 2310/321** (2013.01); **C12N 2310/322** (2013.01); **C12N 2310/332** (2013.01); **C12N 2310/53** (2013.01)

Citation (search report)

- [Y] WO 0183740 A2 20011108 - AVI BIOPHARMA INC [US]
- [Y] ELBASHIR SAYDA M ET AL: "RNA interference is mediated by 21- and 22-nucleotide RNAs", GENES AND DEVELOPMENT, COLD SPRING HARBOR LABORATORY PRESS, NEW YORK, US, vol. 15, no. 2, 15 January 2001 (2001-01-15), pages 188 - 200, XP002204651, ISSN: 0890-9369
- [Y] BASS B L: "RNA interference: the short answer", NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 411, 24 May 2001 (2001-05-24), pages 428 - 429, XP002239989, ISSN: 0028-0836
- [Y] JASKULSKI D ET AL: "INHIBITION OF CELLULAR PROLIFERATION BY ANTISENSE OLIGODEOXYNUCLEOTIDES TO PCNA CYCLIN", SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE, US, vol. 240, 10 June 1988 (1988-06-10), pages 1544 - 1546, XP002039132, ISSN: 0036-8075
- See references of WO 03070896A2

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 PT SE SI SK TR

DOCDB simple family (publication)  
**WO 03070896 A2 20030828**; **WO 03070896 A3 20040304**; AU 2003219781 A1 20030909; AU 2003219781 A8 20030909; EP 1448580 A2 20040825; EP 1448580 A4 20050720

DOCDB simple family (application)  
**US 0304738 W 20030218**; AU 2003219781 A 20030218; EP 03716055 A 20030218