

Title (en)  
CHIMERIC OLIGOMERIC COMPOUNDS AND THEIR USE IN GENE MODULATION

Title (de)  
CHIMÄRE OLIGOMERE VERBINDUNGEN UND DERENVERWENDUNG IN DER GENMODULATION

Title (fr)  
COMPOSES OLIGOMERE CHIMERES ET LEUR UTILISATION DANS LA MODULATION GENIQUE

Publication  
**EP 1560839 A4 20080423 (EN)**

Application  
**EP 03781746 A 20031104**

Priority  
• US 0335074 W 20031104  
• US 42376002 P 20021105  
• US 50327103 P 20030915

Abstract (en)  
[origin: WO2004044138A2] Oligomer compositions comprising first and second oligomers are provided wherein at least a portion of the first oligomer is capable of hybridizing with at least a portion of the second oligomer, at least a portion of the first oligomer is complementary to and capable of hybridizing to a selected target nucleic acid, and at least one of the first or second oligomers includes at least one nucleotide comprising a chimeric organic composition. Oligomer/protein compositions are also provided comprising an oligomer complementary to and capable of hybridizing to a selected target nucleic acid and at least one protein comprising at least a portion of an RNA-induced silencing complex (RISC), wherein at least one nucleotide comprising a chimeric organic composition.

IPC 8 full level  
**C07H 21/02** (2006.01); **C12N 15/11** (2006.01); **C12N 15/113** (2010.01)

IPC 8 main group level  
**C12N** (2006.01)

CPC (source: EP)  
**C07H 21/02** (2013.01); **C12N 15/111** (2013.01); **C12N 15/1135** (2013.01); **C12N 15/1137** (2013.01); **C12Y 301/03048** (2013.01); **C12N 2310/14** (2013.01); **C12N 2310/315** (2013.01); **C12N 2310/3181** (2013.01); **C12N 2310/321** (2013.01); **C12N 2310/322** (2013.01); **C12N 2310/341** (2013.01); **C12N 2310/345** (2013.01); **C12N 2310/346** (2013.01); **C12N 2320/51** (2013.01)

Citation (search report)  
• [Y] US 6107094 A 20000822 - CROOKE STANLEY T [US]  
• [Y] PARRISH S ET AL: "Functional anatomy of a dsRNA trigger: Differential requirement for the two trigger strands in RNA interference", MOLECULAR CELL, CELL PRESS, CAMBRIDGE, MA, US, vol. 6, no. 5, November 2000 (2000-11-01), pages 1077 - 1087, XP002226298, ISSN: 1097-2765  
• [Y] MONIA B P ET AL: "EVALUATION OF 2'-MODIFIED OLIGONUCLEOTIDES CONTAINING 2'-DEOXY GAPSAS ANTISENSE INHIBITORS OF GENE EXPRESSION", JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOCHEMICAL BIOLOGISTS, BIRMINGHAM,, US, vol. 268, no. 19, 5 July 1993 (1993-07-05), pages 14514 - 14522, XP000576145, ISSN: 0021-9258  
• See references of WO 2004044138A2

Citation (examination)  
• BRAASCH D A ET AL: "RNA interference in mammalian cells by chemically-modified RNA", BIOCHEMISTRY, AMERICAN CHEMICAL SOCIETY, US, vol. 42, no. 26, 1 January 2003 (2003-01-01), pages 7967 - 7975, XP002328494, ISSN: 0006-2960, DOI: 10.1021/BI0343774  
• HARBORTH J ET AL: "Sequence, chemical, and structural variation of small interfering RNAs and short hairpin RNAs and the effect on mammalian gene silencing", ANTISENSE & NUCLEIC ACID DRUG DEVELOPMENT, MARY ANN LIEBERT, INC., NEW YORK, US, vol. 13, no. 2, 1 April 2003 (2003-04-01), pages 83 - 105, XP002284355, ISSN: 1087-2906, DOI: 10.1089/108729003321629638  
• CZAUDERNA FRANK ET AL: "Structural variations and stabilising modifications of synthetic siRNAs in mammalian cells", NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, GB, vol. 31, no. 11, 1 June 2003 (2003-06-01), pages 2705 - 2716, XP002591479, ISSN: 1362-4962, DOI: 10.1093/NAR/GKG393  
• SCHWARZ D S ET AL: "EVIDENCE THAT SIRNAS FUNCTION AS GUIDES, NOT PRIMERS, IN THE DROSOPHILA AND HUMAN RNAI PATHWAYS", MOLECULAR CELL, CELL PRESS, CAMBRIDGE, MA, US, vol. 10, no. 3, 1 September 2002 (2002-09-01), pages 537 - 548, XP009019083, ISSN: 1097-2765, DOI: 10.1016/S1097-2765(02)00651-2  
• AMARZGUIQUI MOHAMMED ET AL: "Tolerance for mutations and chemical modifications in a siRNA", NUCLEIC ACIDS RESEARCH, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 31, no. 2, 15 January 2003 (2003-01-15), pages 589 - 595, XP002607733, ISSN: 0305-1048, DOI: 10.1093/NAR/GKG147

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 RO SE SI SK TR

DOCDB simple family (publication)  
**WO 2004044138 A2 20040527; WO 2004044138 A3 20050324;** AU 2003287505 A1 20040603; CA 2504720 A1 20040527; CA 2504720 C 20131224; EP 1560839 A2 20050810; EP 1560839 A4 20080423

DOCDB simple family (application)  
**US 0335074 W 20031104;** AU 2003287505 A 20031104; CA 2504720 A 20031104; EP 03781746 A 20031104