

Title (en)
RNA INTERFERENCE MEDIATED INHIBITION OF TELOMERASE GENE EXPRESSION USING SHORT INTERFERING NUCLEIC ACID (siNA)

Title (de)
RNA-INTERFERENZ-VERMITTELTE INHIBIERUNG VON TELOMERASEGENEXPRESSION MIT KURZER INTERFERIERENDER
NUKLEINSÄURE (SINA)

Title (fr)
INHIBITION INDUITE PAR L'INTERFERENCE DE L'ARN DE L'EXPRESSION DU GENE TELOMERASE AU MOYEN D'UN ACIDE NUCLEIQUE A
BREVE INTERFERENCE (SINA)

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Application
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- US 36312402 P 20020311
- US 38678202 P 20020606
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Abstract (en)
[origin: WO03070742A1] The present invention concerns methods and reagents useful in modulating telomerase gene expression in a variety of applications, including use in therapeutic, diagnostic, target validation, and genomic discovery applications. Specifically, the invention relates to small 5 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 a telomerase protein TERT or telomerase template RNA TERC/TR. The small nucleic acid molecules are useful in the treatment of cancer.

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IPC 8 full level
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Citation (search report)

- [Y] WO 0174136 A2 20011011 - GERON CORP [US], et al
- [Y] WO 0116312 A2 20010308 - RIBOZYME PHARM INC [US], et al
- [E] WO 03034985 A2 20030501 - UNIV ROCHESTER [US], et al
- [Y] ELBASHIR SAYDA M ET AL: "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells", NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 411, no. 6836, 24 May 2001 (2001-05-24), pages 494 - 498, XP002206451, ISSN: 0028-0836
- [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] ELBASHIR S M ET AL: "Functional anatomy of siRNAs for mediating efficient RNAi in Drosophila melanogaster embryo lysate", EMBO JOURNAL, OXFORD UNIVERSITY PRESS, SURREY, GB, vol. 20, no. 23, 3 December 2001 (2001-12-03), pages 6877 - 6888, XP002225998, ISSN: 0261-4189
- See references of WO 03070742A1

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