

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
7 August 2003 (07.08.2003)

PCT

(10) International Publication Number
WO 2003/064625 A3

- (51) International Patent Classification⁷: **C07H 21/04**, A61K 48/00, C12N 15/00
- (21) International Application Number: PCT/US2003/003208
- (22) International Filing Date: 3 February 2003 (03.02.2003)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/353,203 1 February 2002 (01.02.2002) US
60/353,381 1 February 2002 (01.02.2002) US
60/436,238 23 December 2002 (23.12.2002) US
60/438,608 7 January 2003 (07.01.2003) US
- (71) Applicant: **SEQUITUR, INC.** [US/US]; 14 Tech Circle, Natick, MA 01760 (US).
- (72) Inventors: **WOOLF, Tod, M.**; 17 Pheasant Avenue, Sudbury, MA 01776 (US). **TAYLOR, Margaret, F.**; 232 Hayden Rowe Street, Hopkinton, MA 01748 (US).
- (74) Agents: **DECONTI, Giulio, A., Jr.** et al.; Lahive & Cockfield, LLP, 28 State Street, Boston, MA 02109 (US).
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— with international search report
— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 22 April 2004
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*



WO 2003/064625 A3

(54) Title: OLIGONUCLEOTIDE COMPOSITIONS WITH ENHANCED EFFICIENCY

(57) Abstract: The oligonucleotide compositions of the present invention make use of combinations of oligonucleotides. In one aspect, the invention features an oligonucleotide composition including at least 2 different oligonucleotides targeted to a target gene. This invention also provides methods of inhibiting protein synthesis in a cell and methods of identifying oligonucleotide compositions that inhibit synthesis of a protein in a cell.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/03208

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07H 21/04; A61K 48/00; C12N 15/00
 US CL : 435/375, 377; 536/24.1, 24.5; 514/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 435/375, 377; 536/24.1, 24.5; 514/44

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 WEST, CAPLUS, EMBASE, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	UHLMANN et al., Antisense Oligonucleotides: A New Therapeutic Principle. Chemical Reviews. June 1990, Vol. 90, No. 4, pages 543-583, see especially page 562.	1-33
Y	US 5,885,834 A (EPSTEIN) 23 March 1999 (23.03.1999), see entire document.	1-33
Y	US 6,579,856 B2 (MERCOLA) 17 June 2003 (17.06.2003), see especially column 10.	1-33

Further documents are listed in the continuation of Box C.

See patent family annex.

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"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

11 December 2003 (11.12.2003)

Date of mailing of the international search report

13 FEB 2004

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
 Commissioner for Patents
 P.O. Box 1450
 Alexandria, Virginia 22313-1450

Facsimile No. (703)305-3230

Authorized officer

Telicia D. Roberts for
 Sean R McGarry

Telephone No. (703) 308-0196