

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
18 December 2003 (18.12.2003)

PCT

(10) International Publication Number
WO 2003/104426 A3

(51) International Patent Classification⁷: **C07H 21/04**,
C12N 15/00, 1/20, 5/00

[US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

(21) International Application Number:
PCT/US2003/018203

(74) Common Representative: **KOHLI, Vineet**; Merck & Co., Inc., 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

(22) International Filing Date: 9 June 2003 (09.06.2003)

(81) Designated States (*national*): CA, JP, US.

(25) Filing Language: English

(84) Designated States (*regional*): European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR).

(26) Publication Language: English

(30) Priority Data:
60/387,403 10 June 2002 (10.06.2002) US

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

(71) Applicant (*for all designated States except US*): **MERCK & CO., INC.** [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US).

(88) Date of publication of the international search report:
21 May 2004

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **HARVEY, Diane, Marie** [US/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). **YANG, Yi** [CN/US]; 126 East Lincoln Avenue, Rahway, NJ 07065-0907 (US). **KOHL, Nancy, E.**

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.

(54) Title: ISOLATED NUCLEIC ACID MOLECULE ENCODING A NOVEL CENTROMERE-ASSOCIATED MOTOR PROTEIN, AND USES THEREOF

(57) Abstract: An isolated nucleic acid is provided which encodes a novel centromere-associated motor protein, HsCENP-E. Also provided are the purified polypeptide encoded by the nucleic acid sequence, and antibodies immunologically specific for the polypeptide. These biological molecules are useful as markers of cellular proliferation, particularly for the identification of cells in the G2 and M phases of the cell cycle. Methods are provided for using the nucleic acid, protein and antibodies for assessing cellular proliferation in biological fluids and tissue samples, and for detecting the presence of autoantibodies to the protein.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/18203

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07H 21/04; C12N 15/00, 1/20, 5/00

US CL : 536/23.1, 23.2; 435/6, 15, 320.1, 325, 252.3

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. : 536/23.1, 23.2; 435/6, 15, 320.1, 325, 252.3

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)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,544,766 B1 (BERAUD et al) 08 April 2003 (08.04.2003), entire document.	1-3, 5-10, 12-17
X	WO 02/02055 A2 (ANADYS PHARMACEUTICALS, INC.) 10 January 2002 (10.01.20002), entire document.	1-3, 5-10, 12-17

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

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document member of the same patent family

Date of the actual completion of the international search

19 March 2004 (19.03.2004)

Date of mailing of the international search report

31 MAR 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

Padmavathi v Baskar

Telephone No. (703)308-0196

F.D.R. for

INTERNATIONAL SEARCH REPORT

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SEQ.ID.NO: 2 has been searched on all commercial databases.