

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
24 February 2005 (24.02.2005)

PCT

(10) International Publication Number
WO 2005/016132 A3

(51) International Patent Classification:

C12Q 1/70 (2006.01) A61K 39/215 (2006.01)
C12N 15/50 (2006.01) C07K 16/10 (2006.01)

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(21) International Application Number:

PCT/US2004/003307

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, 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, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 4 February 2004 (04.02.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/486,918 15 July 2003 (15.07.2003) US

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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Published:

— with international search report

(88) Date of publication of the international search report:

19 October 2006

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: DIAGNOSTICS FOR SARS VIRUS

(57) Abstract: This invention relates to Severe Acute Respiratory Syndrome associated coronavirus (SARS virus) isolated and recombinant proteins, in particular the nucleocapsid (N) protein and spike (S) protein, as well as fragments thereof and their use in the diagnosis, treatment and prevention of Severe Acute Respiratory Syndrome (SARS). The proteins and fragments carry epitopes that are specific for the SARS virus. Thus, detection methods based on these proteins or fragments as well as the monoclonal antibodies against these proteins or fragments are specific for the SARS virus.



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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/03307

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: C12Q 1/70(2006.01);C12N 15/50(2006.01);A61K 39/215(2006.01);C07K 16/10(2006.01)

 USPC: 435/5;536/23.72;424/221.1;530/388.3,387.3
 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. : 435/5; 536/23.72; 424/221.1; 530/388.3, 387.3

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)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JINGXIANG LI et al. The Structural Characterization and Antigenicity of th S Protein of SARS-coV. Genomics, Proteomics, and Bioinformatics. May 2003. Vol. 1, No.2, pages 108-117, see Abstract, page 111, Table 2, and page 116.	1, 2, 5, 18, 24
X	WANG JINGQIANG et al. The Structure Analysis and Antigenicity Study of the N protein of SARS-CoV. Genomics, Proteomics, and Bioinformatics. May 2003. Vol. 1, No. 2, pages 145-154, see Table 4.	1-6, 10, 12, 18, 24, 32, 40
X	ROTA et al. Characterization of a Novel Coronavirus Associated with Severe Acute Respiratory Syndrome. Science. 30 May 2003 (30.05.2003). Published online 1 May 2003 (01.05.2003). Vol. 300, pages 1394-1399, see entire document.	14-17

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O" document referring to an oral disclosure, use, exhibition or other means		
"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
05 June 2006 (05.06.2006)

Date of mailing of the international search report
22 JUN 2006

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US04/03307

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	K.SIAZEK et al. A Novel Coronavirus Associated with Severe Acute Respiratory Syndrome. New England Journal of Medicine. 15 May 2003 (15.05.2003), published online 10 April 2003 (10.04.2003). Vol. 324, No. 20, pages 1953-1996.	1-42

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/03307

Continuation of B. FIELDS SEARCHED Item 3:

EAST USPat PGPub EPO JPO Derwent; Medline, CAB. Search terms: SARS, HSARS, SCOV, N, "S", SPIKE, NUCLEOCAPSID, PEPTIDE, REGION, REGIONS, CORONA?, CORONAVIR?, IMMUNOASSAY, SUBUNIT, DIAGNOSTIC, DIAGNOS?, TGEV, PY=2003, PY<2004, PY<2003, MONOCLONAL, VIRUS, DT=REVIEW?. SEQ ID NOS. 1-8.