(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 December 2005 (22.12.2005)

PCT

(10) International Publication Number
WO 2005/120565 A2

(51) International Patent Classification[7]: A61K 39/215

(21) International Application Number:
PCT/US2005/019266

(22) International Filing Date: 1 June 2005 (01.06.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/576,118 2 June 2004 (02.06.2004) US
11/141,925 31 May 2005 (31.05.2005) US

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(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, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

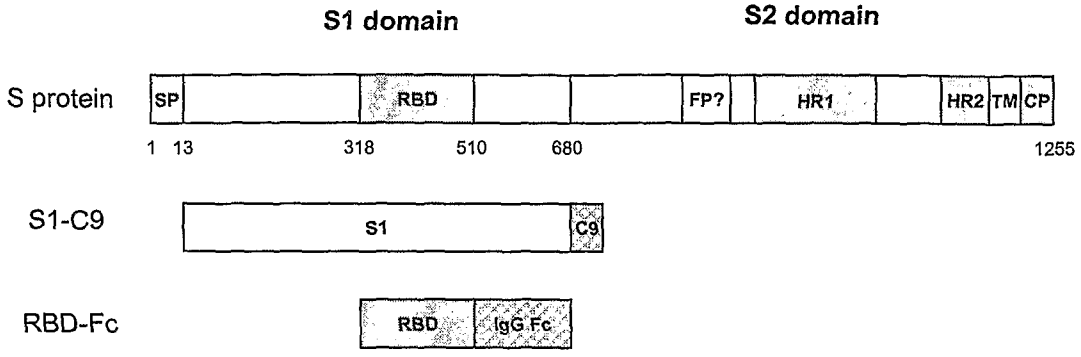
(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, 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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[Continued on next page]

(54) Title: SARS VACCINES AND METHODS TO PRODUCE HIGHLY POTENT ANTIBODIES



(57) Abstract: This invention provides a vaccine comprising an effective amount of an isolated polypeptide or recombinant protein containing the sequence of the receptor-binding domain in the SARS associated coronavirus spike protein or a functional fragment thereof, or a nucleic acid molecule comprising the sequence of a fragment which encodes the sequence of the receptor-binding domain in the Severe Acute Respiratory Syndrome associated coronavirus spike protein or a functional fragment thereof. This invention provides a composition for increasing the immunogenicity of an antigen comprising an effective amount of an antigen and an IgG Fc domain, its functional fragment, or a substance containing an IgG Fc domain or its functional fragment. The antigen and the IgG Fc may be linked or unlinked. Finally, this invention also provides method for using any of the above compositions for immunization.

WO 2005/120565 A2

EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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— *of inventorship (Rule 4.17(iv)) for US only*

Published:

— *without international search report and to be republished upon receipt of that report*

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