



(51) International Patent Classification:

C12N 9/58 (2006.01) C07H 3/06 (2006.01)
A61K 38/48 (2006.01) C12P 21/00 (2006.01)
A61K 39/00 (2006.01) C12N 9/10 (2006.01)

(21) International Application Number:

PCT/IB2024/057694

(22) International Filing Date:

08 August 2024 (08.08.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/518,425 09 August 2023 (09.08.2023) US

(71) Applicant: GLAXOSMITHKLINE BIOLOGICALS
SA [BE/BE]; Rue de l'Institut 89, B-1330 Rixensart (BE).(72) Inventors: **SERVENTI, Fabio**; c/o 1250 South Collegeville Road, Collegeville, Pennsylvania 19426 (US).
MARKOVIC-MULLER, Sandra; c/o 1250 South Collegeville Road, Collegeville, Pennsylvania 19426 (US).
LIPOWSKY, Gerd Martin; c/o 1250 South Collegeville Road, Collegeville, Pennsylvania 19426 (US).

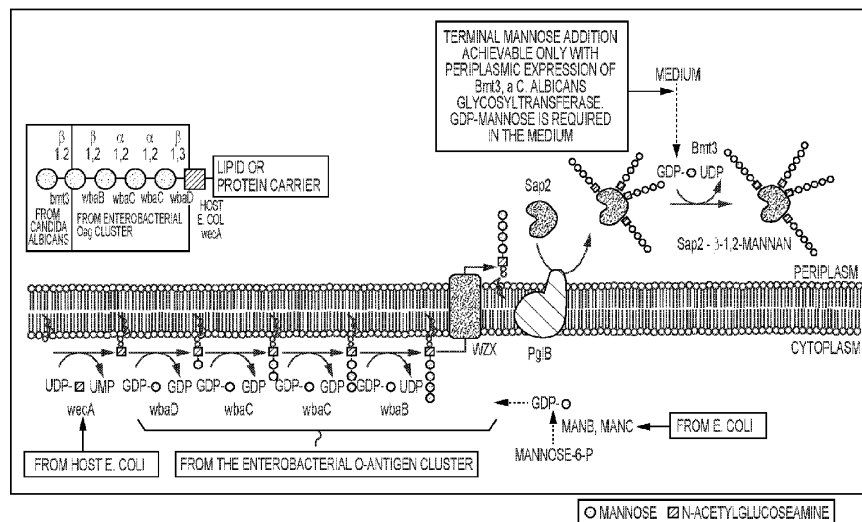
(81) Designated States (unless otherwise indicated, for every

kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every

kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) Title: MODIFIED PROTEINS

**FIG. 2B**

(57) **Abstract:** The present invention relates to the field of modified proteins, immunogenic compositions and vaccines comprising the modified proteins, their manufacture and the use of such compositions in medicine. More particularly, it relates to a modified Sap2 (Secreted Aspartyl Proteinase 2 of *Candida albicans*) protein. The modified Sap2 protein can be used as a carrier protein for other antigens, particularly saccharide antigens or other antigens lacking T cell epitopes.

[Continued on next page]

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*
- *with sequence listing part of description (Rule 5.2(a))*
- *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*

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

20 March 2025 (20.03.2025)