



(43) International Publication Date
28 April 2016 (28.04.2016)

(10) International Publication Number
WO 2016/062720 A1

(51) International Patent Classification:

A61K 39/12 (2006.01) C07K 14/08 (2006.01)
A61K 39/35 (2006.01)

(21) International Application Number:

PCT/EP2015/074269

(22) International Filing Date:

20 October 2015 (20.10.2015)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

14189897.3 22 October 2014 (22.10.2014) EP
15184192.1 8 September 2015 (08.09.2015) EP

(71) Applicant: SAIBA GMBH [CH/CH]; Alte Tösstalstrasse
20, CH-8487 Rämismühle (CH).

(72) Inventors: BACHMANN, Martin; Alte Tösstalstr. 20,
CH-8487 Rämismühle (CH). ZELTINS, Andris; Kleistu
Str. 69-2, LV-1067 Riga (LV). PUMPENS, Paul; Bazn-
icas Str. 27/29-22, LV-1010 Riga (LV).

(74) Agent: SPERRLE, Martin; Latscha Schöllhorn Partner
AG, Austrasse 24, CH-4051 Basel (CH).

(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, CZ, DE, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IR, IS, JP, KE, KG, KN, KP, KR,
KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG,
MK, MN, 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, SM, ST, SV, SY, TH, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LR, LS, MW, MZ, NA, RW, 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, 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).

Declarations under Rule 4.17:

— as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii))

Published:

— with international search report (Art. 21(3))
— with sequence listing part of description (Rule 5.2(a))

(54) Title: MODIFIED VIRUS-LIKE PARTICLES OF CMV

(57) Abstract: The present invention relates to virus-like particles of plant virus Cucumber Mosaic Virus (CMV), and in particular to modified VLPs of CMV comprising Th cell epitopes, in particular universal Th cell epitopes. Furthermore, these modified VLPs serve as, preferably, vaccine platform, for generating immune responses, in particular antibody responses, against antigens linked to said modified VLPs. The presence of the Th cell epitopes, in particular universal Th cell epitopes, led to a further increase in the generated immune response.



WO 2016/062720 A1