



(51) International Patent Classification:
C12Q 1/6876 (2018.01) *C12Q 1/70* (2006.01)

(21) International Application Number:
PCT/SG2021/050582

(22) International Filing Date:
24 September 2021 (24.09.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10202009456Y 24 September 2020 (24.09.2020) SG

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(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, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN,

(54) Title: PRIMERS

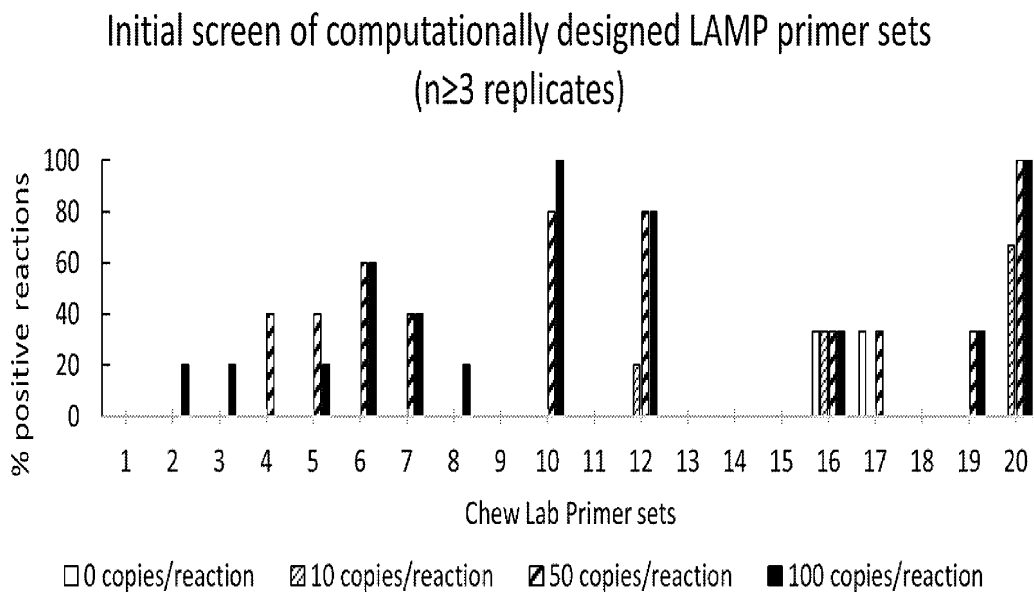


Figure 3

(57) Abstract: Disclosed herein is a primer set for a nucleic acid amplification analysis to detect a SARS-CoV-2 virus, the primer set is selected from the group consisting of Set 12 against *Orf1ab 2'-0-ribose methyltransferase*: SEQ ID No. 1, SEQ ID No. 2, SEQ ID No. 7 attached to SEQ ID No. 8 by a first linker, and SEQ ID No. 9 attached to SEQ ID No. 10 by a second linker; Set 10 against *orf3a*: SEQ ID No. 11, SEQ ID No. 12, SEQ ID No. 17 attached to SEQ ID No. 18 by a third linker, and SEQ ID No. 19 attached to SEQ ID No. 20 by a fourth linker; Set 20 against *S' gene*: SEQ ID No. 21, SEQ ID No. 22, SEQ ID No. 27 attached to SEQ ID No. 28 by a fifth linker, and SEQ ID No. 29 attached to SEQ ID No. 30 by a sixth linker; and any combinations thereof. In specific embodiments, the nucleic acid amplification analysis is reverse transcription-loop mediated isothermal amplification (RT-LAMP).

[Continued on next page]

KP, KR, KW, 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, 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, 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:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*
— *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*