

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

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



WIPO | PCT



(10) International Publication Number
WO 2021/155243 A8

(43) International Publication Date
05 August 2021 (05.08.2021)

(51) International Patent Classification:

A61K 31/7105 (2006.01) *C07K 14/135* (2006.01)
A61K 39/12 (2006.01) *A61P 31/14* (2006.01)
A61K 39/145 (2006.01) *C12N 15/44* (2006.01)

TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
KM, ML, MR, NE, SN, TD, TG).

Published:

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

(21) International Application Number:

PCT/US2021/015840

(22) International Filing Date:

29 January 2021 (29.01.2021)

(48) Date of publication of this corrected version:

11 August 2022 (11.08.2022)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

62/967,888 30 January 2020 (30.01.2020) US

(15) Information about Correction:

see Notice of 11 August 2022 (11.08.2022)

Previous Correction:

see Notice of 10 September 2021 (10.09.2021)

(71) Applicant: **MODERNATX, INC.** [US/US]; 200 Technol-
ogy Square, Cambridge, MA 02139 (US).

(72) Inventors: **SHAW, Christine**; 200 Technology Square,
Cambridge, MA 02139 (US). **STEWART-JONES, Guil-
laume**; 200 Technology Square, Cambridge, MA 02139
(US). **NARAYANAN, Elisabeth**; 38 Fulkerson Street,
Cambridge, MA 02141 (US). **PRESNYAK, Vladimir**; 776
Chestnut Street, Manchester, NH 03104 (US). **ELBASHIR,
Sayda, Mahgoub**; 200 Technology Square, Cambridge,
MA 02139 (US).

(74) Agent: **VON REYN, Jessica, A.** et al.; Wolf, Greenfield &
Sacks, P.C., 600 Atlantic Avenue, Boston, MA 02210-2206
(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, 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,
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,

(54) Title: RESPIRATORY VIRUS IMMUNIZING COMPOSITIONS

(57) Abstract: The disclosure relates to respiratory virus ribonucleic acid (RNA) vaccines as well as methods of using the vaccines and compositions comprising the vaccines.

WO 2021/155243 A8