



(51) International Patent Classification:

C07K 14/08 (2006.01) C12N 15/85 (2006.01)
C07K 19/00 (2006.01) A61K 38/16 (2006.01)

(21) International Application Number:

PCT/US2024/046998

(22) International Filing Date:

17 September 2024 (17.09.2024)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/583,642 19 September 2023 (19.09.2023) US
63/602,644 26 November 2023 (26.11.2023) US
63/675,348 25 July 2024 (25.07.2024) US

(71) Applicant: **PHYLEX BIOSCIENCES, INC.** [US/US];
1155 Camino Del Mar, Suite 502, Del Mar, CA 92014-2605
(US).

(72) Inventor: **BRANDYS, Pascal**; 1155 Camino Del Mar,
Suite 502, Del Mar, CA 92014-2605 (US).

(74) Agent: **HARPER, David S.**; McDonnell Boehnen Hulbert
& Berghoff LLP, 300 South Wacker Drive, Chicago, IL
60606 (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.

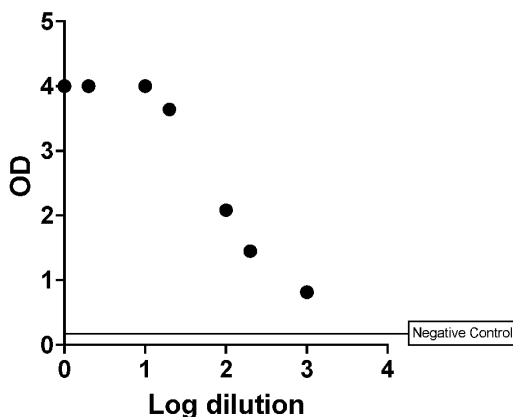
(84) Designated States (unless otherwise indicated, for every

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: REAGENTS AND METHODS FOR PREVENTING, TREATING OR LIMITING HENIPAVIRUS INFECTION

Figure 1

ELISA Positive Control
(initial concentration 1µg/ml)



(57) Abstract: Isolated polypeptides and nucleic acids encoding them are provided, where the polypeptides include (a) an attachment glycoprotein G head domain (GHD) comprising an amino acid sequence at least 70% identical to the amino acid sequence of any one of SEQ ID NO: 1-2; and (b) a multimerization domain capable of generating multimers comprising 2 to 60 copies of the isolated polypeptide; as are methods for use of the polypeptides and nucleic acids for treating or limiting development of a henipavirus infection.

[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))*