

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
28 November 2024 (28.11.2024)



(10) International Publication Number
WO 2024/243332 A2

- (51) **International Patent Classification:**
Not classified
- (21) **International Application Number:**
PCT/US2024/030607
- (22) **International Filing Date:**
22 May 2024 (22.05.2024)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
63/468,112 22 May 2023 (22.05.2023) US
- (71) **Applicant: PRECIGEN, INC.** [US/US]; 20358 Seneca Meadows Parkway, Germantown, Maryland 20876 (US).
- (72) **Inventors: BROUGH, Douglas E.**; Germantown, Maryland (US). **ETTYREDDY, Damodar R.**; Germantown, Maryland (US). **YANG, Qi**; Germantown, Maryland (US). **WANG, Chen**; Germantown, Maryland (US).

(74) **Agent: YAO, Gene**; 222 Delaware Ave, Suite 1200, Wilmington, Delaware 19801-1611 (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).

Published:

- without international search report and to be republished upon receipt of that report (Rule 48.2(g))
- with sequence listing part of description (Rule 5.2(a))

(54) **Title:** NOVEL ADENOVIRUS VACCINE THERAPY FOR THE TREATMENT OF RECURRENT RESPIRATORY PAPILLOMATOSIS

(57) **Abstract:** Multi-antigenic human papilloma virus (HPV) molecular vaccine constructs for use and treatment of HPV-associated disorders and pathologies, such as HPV molecular vaccines targeting HPV6- and HPV11-associated recurrent respiratory papillomatosis (RRP).

WO 2024/243332 A2