

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

(19) World Intellectual Property
Organization
International Bureau



(10) International Publication Number
WO 2020/018695 A1

(43) International Publication Date
23 January 2020 (23.01.2020)

(51) International Patent Classification:

C07K 16/30 (2006.01) C07K 14/725 (2006.01)
A61K 39/00 (2006.01) A61P 35/00 (2006.01)

(21) International Application Number:

PCT/US2019/042245

(22) International Filing Date:

17 July 2019 (17.07.2019)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

62/700,178 18 July 2018 (18.07.2018) US

(71) Applicant: **AMGEN INC.** [US/US]; Legal Dept./Patent Operations, One Amgen Center Drive, Thousand Oaks, California 91320-1799 (US).

(72) Inventor: **NOLAN-STEVAUX, Olivier**; 340 Hazel Avenue, Millbrae, California 94030 (US).

(74) Agent: **KONG, Lawrence**; 1120 Veterans Blvd., South San Francisco, California 94080 (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, 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, 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))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))

Published:

- with international search report (Art. 21(3))

(54) Title: CHIMERIC RECEPTORS TO STEAP1 AND METHODS OF USE THEREOF

(57) Abstract: Antigen binding molecules, chimeric receptors, and engineered immune cells to STEAP1 are disclosed in accordance with the invention. The invention further relates to vectors, compositions, and methods of treatment and/or detection using the STEAP1 antigen binding molecules and engineered immune cells.

WO 2020/018695 A1