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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
1 July 2010 (01.07.2010)

PCT

(10) International Publication Number
WO 2010/075238 A1

(51) International Patent Classification:
C07K 16/28 (2006.01) *C07K 14/72* (2006.01)

(21) International Application Number:
PCT/US2009/068858

(22) International Filing Date:
18 December 2009 (18.12.2009)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
61/203,569 23 December 2008 (23.12.2008) US
61/264,622 25 November 2009 (25.11.2009) US

(71) Applicant *(for all designated States except US)*: **AMGEN INC.** [US/US]; One Amgen Center Drive, Thousand Oaks, California 91320-1799 (US).

(72) Inventors; and

(75) Inventors/Applicants *(for US only)*: **BOONE, Thomas C.** [US/US]; 2715 Kelly Knoll Lane, Newbury Park, California 91320 (US). **BRANKOW, David W.** [US/US]; 18800 Tribune Street, Northridge, California 91326 (US). **GEGG, JR., Colin V.** [US/US]; 736 Kenmore Circle, Newbury Park, California 91320 (US). **HU, Shaw-Fen Sylvia** [US/US]; 986 Lynnmere Drive, Thousand Oaks, California 91360 (US). **KING, Chadwick T.** [CA/CA]; 1325 Moody Avenue, North Vancouver, British Columbia V7L 3T5 (CA). **LU, Hsieng Sen** [US/US]; 2758 Rainfield Avenue, Westlake Village, California 91362 (US). **SHI, Licheng** [US/US]; 5243 Via Capote, Newbury Park, California 91320 (US). **XU, Cen** [US/US]; 5221 Via Jacinto, Newbury Park, California 91320 (US).

(74) Agent: **SHOLTZ, Charles K.**; Amgen Inc., 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, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PE, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, ST, SV, SY, 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, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (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, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

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

— *with sequence listing part of description (Rule 5.2(a))*

WO 2010/075238 A1

(54) Title: HUMAN CGRP RECEPTOR BINDING PROTEINS

(57) Abstract: Antigen binding proteins that bind to human CGRP receptor (CGRP R) are provided. Nucleic acids encoding the antigen binding protein, vectors, and cells encoding the same are also provided. The antigen binding proteins can inhibit binding of CGRP R to CGRP, and are useful in a number of CGRP R related disorders, including the treatment and/or prevention of migraine headaches.