



(51) International Patent Classification:
C07K 14/00 (2006.01) *G01N 33/68* (2006.01)

(21) International Application Number:
PCT/US2018/044058

(22) International Filing Date:
27 July 2018 (27.07.2018)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
62/537,900 27 July 2017 (27.07.2017) US

(71) Applicant: UNIVERSITY OF SOUTHERN CALIFORNIA [US/US]; Suite 2300, 1150 South Olive Street, Los Angeles, California 90015 (US).

(72) Inventors: LIMAN, Emily; 421 21st Street, Santa Monica, California 90402 (US). TU, Yu-Hsiang; Apt. 3, 285 N. Holliston Ave., Pasadena, California 91106 (US).

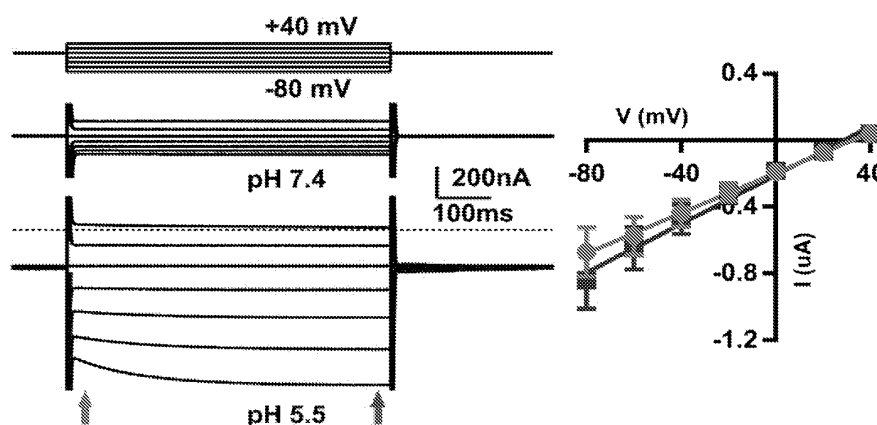
(74) Agent: FORCE, Walker R.; c/o PILLSBURY WINTHROP SHAW PITTMAN LLP, P.O. BOX 10500, McLean, Virginia 22101 (US).

(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).

(54) Title: OTOPETRIN PROTON CHANNELS AS TARGETS FOR PHARMACEUTICAL DISCOVERY

Fig. 5



(57) Abstract: Presented herein are compositions and devices comprising otopetrin polypeptides and uses thereof for identifying modulators of proton translocation activity through an otopetrin polypeptide, or functional portion thereof.

[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))