



- (51) **International Patent Classification:**
C07K 16/28 (2006.01) *A61K 39/395* (2006.01)
- (21) **International Application Number:**
PCT/US2019/040820
- (22) **International Filing Date:**
08 July 2019 (08.07.2019)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
62/695,600 09 July 2018 (09.07.2018) US
62/744,611 11 October 2018 (11.10.2018) US
- (71) **Applicants:** **FIVE PRIME THERAPEUTICS, INC.** [US/US]; 111 Oyster Point Blvd., South San Francisco, California 94080 (US). **BRISTOL-MYERS SQUIBB COMPANY** [US/US]; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US).
- (72) **Inventors:** **SCHEBYE, Xiao Min**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **CHEN, Diana Yuhui**; 111 Oyster Point Blvd., South

San Francisco, California 94080 (US). **RANKIN, Andrew**; 111 Oyster Point Blvd., South San Francisco, California 94080 (US). **DENG, Xiaodi**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **TOTH, Joseph**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **LIANG, Linda**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **HAN, Michelle Minhua**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **BEE, Christine**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **TRUONG, Hong-An**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **SELBY, Mark J.**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **KORMAN, Alan J.**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **LONBERG, Nils**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **CHEN, Guodong**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US). **HUANG, Richard Y.**; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US).

(54) **Title:** ANTIBODIES BINDING TO ILT4

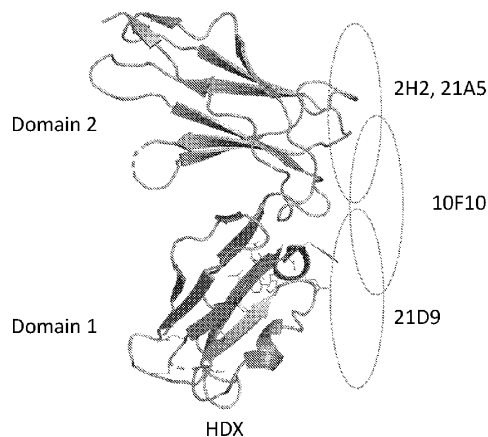


FIGURE 37C

(57) **Abstract:** The present application relates to antibodies specifically binding to immunoglobulin-like transcript 4 (ILT4), which is also known as LILRB2, LIR2, MIR10, and CD85d, and corresponding nucleic acids, host cells, compositions, and uses. In some embodiments, the antibodies bind specifically to human ILT4, but do not significantly bind to ILT2, ILT3, or ILT5, or to other members of the LILRA or LILRB families.

[Continued on next page]

DEYANOVA, Ekaterina G.; Rte. 206 & Province Line Road, P.O. Box 4000, Princeton, New Jersey 08543 (US).

(74) **Agent: DOHERTY, Elizabeth A.** et al.; McNeill Baur PLLC, 500 W. Silver Spring Drive, Suite K-200, Glendale, Wisconsin 53217 (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).

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))

(88) **Date of publication of the international search report:**
20 February 2020 (20.02.2020)