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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
22 December 2005 (22.12.2005)

PCT

(10) International Publication Number
WO 2005/121179 A2

(51) International Patent Classification[7]: C07K 16/28

(21) International Application Number:
PCT/US2005/020253

(22) International Filing Date: 7 June 2005 (07.06.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/578,103 7 June 2004 (07.06.2004) US

(71) Applicant *(for all designated States except US)*: **RAVEN BIOTECHNOLOGIES, INC.** [US/US]; Britannia Oyster Point, 1140 Veterans Boulevard, South San Francisco, CA 94080 (US).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **MATHER, Jennie, P.** [US/US]; 269 La Prenda Drive, Millbrae, CA 94030 (US). **ROBERTS, Penelope, E.** [US/US]; 269 La Prenda Drive, Millbrae, CA 94030 (US). **LI, Ronghao** [CN/US]; 420 Richmond Drive, Apt. #2, Millbrae, CA 94030 (US).

(74) Agents: **ZHOU, Jie** et al.; Morrison & Foester LLP, 755 Page Mill Road, Palo Alto, CA 94304-1018 (US).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, 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, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *without international search report and to be republished upon receipt of that report*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2005/121179 A2

(54) Title: TRANSFERRIN RECEPTOR ANTIBODIES

(57) Abstract: The invention provides further characterization of the disease and cancerassociated antigen, transferrin receptor. The invention also provides a novel family of antibodies that bind to the transferrin receptor, methods of diagnosing and treating various human cancers and diseases that express transferrin receptor.