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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
06 December 2018 (06.12.2018)

WIPO | PCT

(10) International Publication Number
WO 2018/220216 A1

(51) International Patent Classification:
C07K 16/00 (2006.01) *C07K 16/32* (2006.01)
C07K 16/28 (2006.01) *C07K 16/30* (2006.01)
C07K 16/40 (2006.01)

(21) International Application Number:
PCT/EP2018/064538

(22) International Filing Date:
01 June 2018 (01.06.2018)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
17174087.1 01 June 2017 (01.06.2017) EP

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(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))*
— *with sequence listing part of description (Rule 5.2(a))*
— *in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE*

WO 2018/220216 A1

(54) Title: HETERODIMERIZING IG DOMAINS

(57) Abstract: The present invention provides a protein complex comprising heterodimerizing regions HRI and HRII, each comprised of antiparallel β-strands and intervening regions wherein HRI and HRII are each interspersed fusion proteins of two human constant regions of an immunoglobulin or immunoglobulin-like proteins. The present invention also provides nucleic acid molecules comprising a sequence encoding said protein complexes and vectors comprising the nucleic acid. The present invention also provides the protein complex, the nucleic acid and the vector for use as a medicament. The present invention further provides a method of determining the amino acid sequence of HRI and/or of the amino acid sequence of HRII. The present invention also provides a method of producing amino acid chains of HRI and/or amino acid chains of HRII. The present invention further provides the protein complex for use in the prophylaxis, treatment or diagnosis of a disorder or a disease.