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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
15 May 2008 (15.05.2008)

PCT

(10) International Publication Number
WO 2008/055795 A1

(51) International Patent Classification:
C07K 16/00 (2006.01) *C07K 16/08* (2006.01)
C12N 15/10 (2006.01) *C07K 16/10* (2006.01)
C12N 15/86 (2006.01)

(21) International Application Number:
PCT/EP2007/061570

(22) International Filing Date: 26 October 2007 (26.10.2007)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
06123620.4 7 November 2006 (07.11.2006) EP

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(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BH, BR, BW, BY, BZ, CA, CH, 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, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, 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, HU, IE, IS, IT, LT, LU, LV, MC, MT, 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:
— *with international search report*
— *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*

WO 2008/055795 A1

(54) Title: SELECTION OF HUMAN MONOCLONAL ANTIBODIES BY MAMMALIAN CELL DISPLAY

(57) Abstract: The application provides a method of isolating a eukaryotic cell expressing an antibody o f desired specificity, preferably a monoclonal single chain antibody (scFv). The application further provides methods which allow to clone the variable regions of said antibody fro m that isolated eukaryotic cell and to recombinantly produce antibodies comprising said variable regions as fusion protein with a purification tag, eg. as Fc-fusion, as a Fab fragment, or as whole antibodies, such as IgG, IgE, IgD, IgA and IgM. Said methods also allows to recombinantly produce antibodies with desired specificity in a fully species specific form, preferably as fully human antibodies.