

(43) International Publication Date
22 December 2011 (22.12.2011)(10) International Publication Number
WO 2011/158009 A1

PCT

(51) International Patent Classification:

A01K 67/027 (2006.01) C12N 15/85 (2006.01)
C07K 16/00 (2006.01) C12N 15/90 (2006.01)
C07K 16/46 (2006.01)

Meditrina (B260), Babraham Research Campus, Cambridge, Cambridgeshire CB22 3AT (GB).

(21) International Application Number:

PCT/GB2011/050019

(74) Agent: **STEPHEN, Robert**; Olswang LLP, 90 High Holborn, London, Greater London WC1V 6XX (GB).

(22) International Filing Date:

7 January 2011 (07.01.2011)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/355,666 17 June 2010 (17.06.2010) US
PCT/GB2010/051122 7 July 2010 (07.07.2010) GB

(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, BR, BW, BY, BZ, CA, CH, CL, 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, PE, PG, PH, PL, PT, RO, RS, RU, 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.

(71) Applicant (for all designated States except US): **KYMAB LIMITED** [GB/GB]; Meditrina (B260), Babraham Research Campus, Cambridge, Cambridgeshire CB22 3AT (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BRADLEY, Allan** [GB/GB]; Kymab Limited, Meditrina (B260), Babraham Research Campus, Cambridge, Cambridgeshire CB22 3AT (GB). **LEE, E-Chiang** [US/GB]; Kymab Limited, Meditrina (B260), Babraham Research Campus, Cambridge, Cambridgeshire CB22 3AT (GB). **LIANG, Qi** [CN/GB]; Kymab Limited, Meditrina (B260), Babraham Research Campus, Cambridge, Cambridgeshire CB22 3AT (GB). **WANG, Wei** [CN/GB]; Kymab Limited,

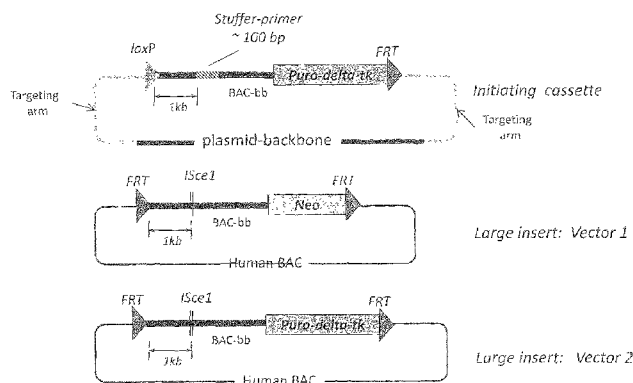
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, 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, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- with sequence listing part of description (Rule 5.2(a))

(54) Title: ANIMAL MODELS AND THERAPEUTIC MOLECULES

Fig. 1 Three basic vector backbones



(57) Abstract: The invention discloses methods for the generation of chimaeric human - non-human antibodies and chimaeric antibody chains, antibodies and antibody chains so produced, and derivatives thereof including fully humanised antibodies; compositions comprising said antibodies, antibody chains and derivatives, as well as cells, non-human mammals and vectors, suitable for use in said methods.