



(51) International Patent Classification:

C12N 15/10 (2006.01) C40B 40/08 (2006.01)
C07K 16/00 (2006.01) C40B 50/06 (2006.01)
C40B 30/02 (2006.01)

(21) International Application Number:

PCT/EP2010/057507

(22) International Filing Date:

29 May 2010 (29.05.2010)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

61/182,350 29 May 2009 (29.05.2009) US
09162724.0 15 June 2009 (15.06.2009) EP
61/299,401 29 January 2010 (29.01.2010) US

(71) Applicant (for all designated States except US): **MorphoSys AG** [DE/DE]; Lena-Christ-Strasse 48, 82152 Martinsried/Planegg (DE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **ENZELBERGER, Markus** [DE/DE]; Pasteurstrasse 41, 82152 Planegg-Martinsried (DE). **PRASSLER, Josef** [DE/DE]; Kriegerstrasse 8a, 82110 Germering (DE). **URLINGER, Stefanie** [DE/DE]; Astenstrasse 12, 80689 München (DE). **HERRMANN, Tanja** [DE/DE]; Georg-Hager-Str. 4, 81369 München (DE). **TILLER, Thomas** [DE/DE]; Sauerbruchstraße 60, München 81377 (DE).

(74) Agent: **HUTTER, Bernd**; Lena-Christ-Str. 48, 82152 Planegg-Martinsried (DE).

(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.

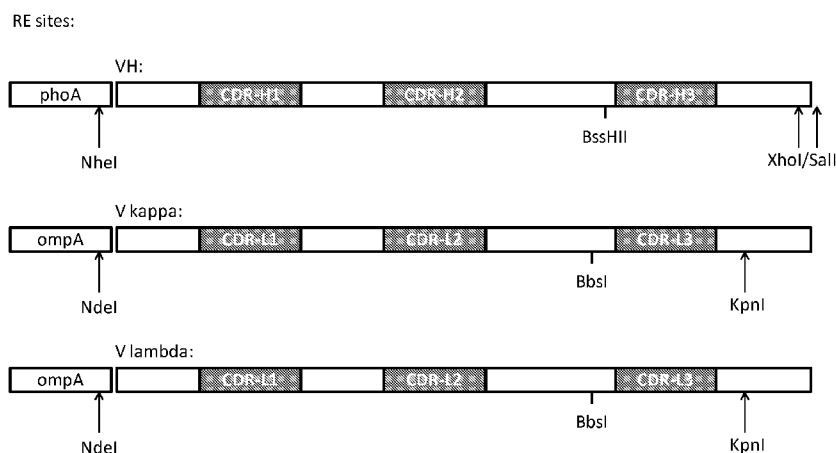
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, 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))
- 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))

(54) Title: A COLLECTION AND METHODS FOR ITS USE

Figure 3



(57) Abstract: The present disclosure enables methods of identifying the VH and VL class pairs in the human immune repertoire, determining the VH and VL class pairs that are most prevalent and those having favorable biophysical properties. More specifically, the collections of the present disclosure comprise the most prevalent and/or preferred VH and VL class pairings with highly diversified CDRs.