



- (51) International Patent Classification:
C12N 15/85 (2006.01)
- (21) International Application Number:
PCT/EP2014/076024
- (22) International Filing Date:
28 November 2014 (28.11.2014)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
1321109.9 29 November 2013 (29.11.2013) GB
1411717.0 1 July 2014 (01.07.2014) GB
- (71) Applicant: UCB BIOPHARMA SPRL [BE/BE]; 60, Allée de la Recherche, B-1070 Brussels (BE).
- (72) Inventors: JAMES, David Cameron; c/o IPD, UCB Celltech, 208 Bath Road, Slough Berkshire SL1 3WE (GB).
BROWN, Adam John; c/o IPD, UCB Celltech, 208 Bath Road, Slough Berkshire SL1 3WE (GB).
- (74) Agent: BLANCHARD, Amanda; UCB Celltech, 208 Bath Road, Slough Berkshire SL1 3WE (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, BN, 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, IR, IS, JP, KE, KG, KN, KP, KR, 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,

[Continued on next page]

(54) Title: SYNTHETIC PROMOTERS

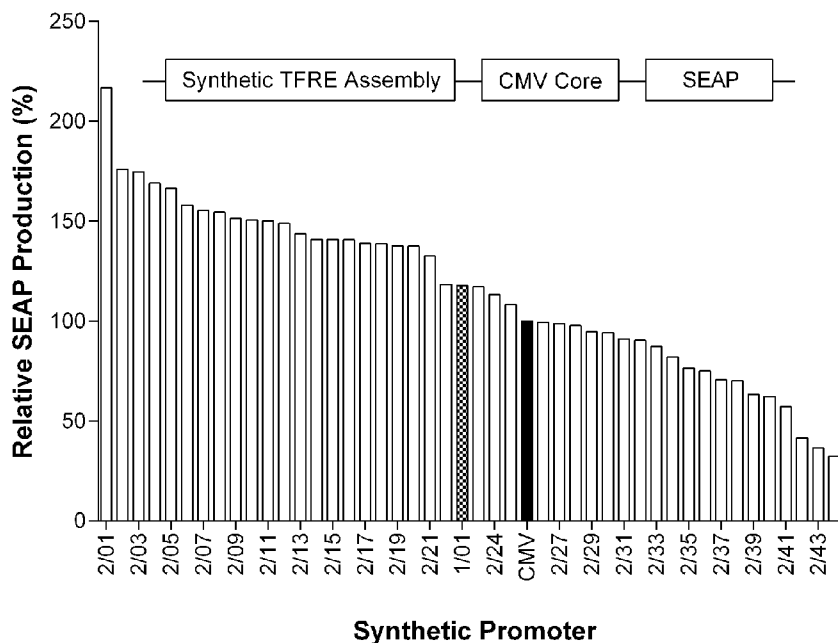


Figure 4

[Continued on next page]



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, — with sequence listing part of description (Rule 5.2(a))
GW, KM, ML, MR, NE, SN, TD, TG).

Published:

— without international search report and to be republished
upon receipt of that report (Rule 48.2(g))

(57) Abstract: CHO cell-specific synthetic promoter constructs for expressing recombinant proteins, a library of promoter constructs thereof, and a method for producing the promoter constructs. The promoter constructs enable precise control of recombinant gene transcription over three orders of magnitude, with the top expressing promoters capable of double the transcriptional activity of the CMV promoter.