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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
28 June 2012 (28.06.2012)

WIPO | PCT

(10) International Publication Number
WO 2012/085282 A1

(51) International Patent Classification:
C12N 15/11 (2006.01) *C12N 15/85* (2006.01)
C12N 15/09 (2006.01)

(21) International Application Number:
PCT/EP2011/073984

(22) International Filing Date:
23 December 2011 (23.12.2011)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
1021873.3 23 December 2010 (23.12.2010) GB

(71) Applicant *(for all designated States except US)*: **MOLOGEN AG** [DE/DE]; Fabeckstraße 30, 14195 Berlin (DE).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **SCHROFF, Matthias** [DE/DE]; Taylorstrasse 4b, 14195 Berlin (DE). **KLEUSS, Christiane** [DE/DE]; Hindenburgdamm 47, 12203 Berlin (DE). **KAPP, Kerstin** [DE/DE]; Dolziger Str. 7, 10247 Berlin (DE).

(74) Agent: **TEGETHOFF, Sebastian**; 24IP Law Group, Sonnenberg Fortmann, Charlottenstraße 80, 10117 Berlin (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, QA, RO, RS, RU, RW, 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, 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))*
— *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))*
— *with sequence listing part of description (Rule 5.2(a))*

(54) Title: DNA EXPRESSION CONSTRUCT



Figure 1

(57) Abstract: The invention relates to a minimalistic gene expression construct, its transfer into cells and its use for gene expression for molecular-medical applications. According to the disclosure, a DNA construct for gene expression is provided, wherein the construct is a linear and open-chained DNA double strand comprising a promoter sequence, a coding sequence and a termination signal, wherein the construct comprises at least one L-DNA nucleotide.

WO 2012/085282 A1