



- (51) **International Patent Classification:**
C12N 15/85 (2006.01)
- (21) **International Application Number:**
PCT/EP2023/078087
- (22) **International Filing Date:**
10 October 2023 (10.10.2023)
- (25) **Filing Language:** English
- (26) **Publication Language:** English
- (30) **Priority Data:**
22200620.7 10 October 2022 (10.10.2022) EP
- (71) **Applicant:** BISY GMBH [AT/AT]; Wünschendorf 292, 8200 Hofstätten an der Raab (AT).
- (72) **Inventors:** GLIEDER, Anton; Bisy GmbH, Wünschendorf 292, 8200 Hofstätten an der Raab (AT). HUSSEIN, Mohamed; Bisy GmbH, Wünschendorf 292, 8200 Hofstätten an der Raab (AT). HATZL, Anna-Maria; Bisy GmbH, Wünschendorf 292, 8200 Hofstätten an der Raab (AT). EBNER, Katharina; Bisy GmbH, Wünschendorf 292, 8200 Hofstätten an der Raab (AT).
- (74) **Agent:** SCHWARZ & PARTNER PATENTANWÄLTE GMBH et al.; Wipplingerstraße 30, 1010 Wien (AT).

(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, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MU, 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, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SC, 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, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

(54) **Title:** MODIFIED PROMOTER SEQUENCES

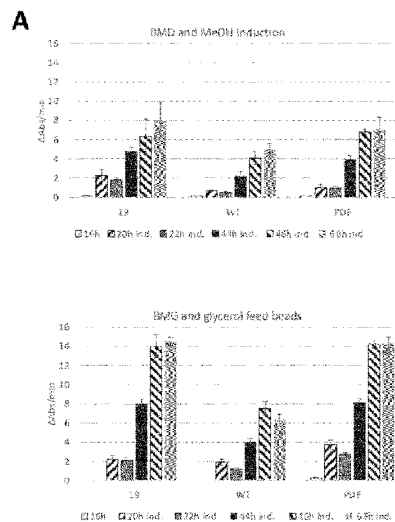


Figure 1

(57) **Abstract:** The present invention relates to a method for modifying a promoter to obtain a promoter variant comprising the steps of: a. providing a promoter, b. modifying the promoter - by inserting at least one nucleic acid sequence selected from the group consisting of GATAX₁X₂X₃X₄X₅X₆(X₇)_m, ATCCTTTTAG (SEQ ID No. 1) and AAA into the promoter and/or - by substituting nucleotides of the promoter sequence to introduce at least one nucleic acid sequence selected from the group consisting of GATAX₁X₂X₃X₄X₅X₆(X₇)_m, ATCCTTTTAG (SEQ ID No. 1) and AAA into the promoter, wherein X₁, X₂, X₃, X₄, X₅, X₆, and X₇ are nucleotides independently selected from the group consisting of A, C, G and T, and wherein m is an integer between 0 and 10.

[Continued on next page]

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))*