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

(19) World Intellectual Property Organization
International Bureau

(43) International Publication Date
23 March 2006 (23.03.2006)

PCT

(10) International Publication Number
WO 2006/029985 A3

(51) International Patent Classification:
C12N 15/70 (2006.01)

(21) International Application Number:
PCT/EP2005/054450

(22) International Filing Date:
8 September 2005 (08.09.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04022201.0 17 September 2004 (17.09.2004) EP

(71) Applicant *(for all designated States except US)*: **BOEHRINGER INGELHEIM AUSTRIA GMBH** [AT/AT]; Dr. Boehringer-Gasse 5-11, A-1121 WIEN (AT).

(72) Inventors; and
(75) Inventors/Applicants *(for US only)*: **GRABHERR, Reingard** [AT/AT]; Ludwig-Kaiserstrasse 11, A-3021 PRESSBAUM (AT). **PFAFFENZELLER, Irene** [AT/AT]; Mariahilferstrasse 74a/11, A-1070 WIEN (AT).

(74) Agent: **HAMMANN, Heinz**; BOEHRINGER INGELHEIM GMBH, CD-Patents, Binger Strasse 173, 55216 INGELHEIM AM RHEIN (DE).

(81) Designated States *(unless otherwise indicated, for every kind of national protection available)*: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States *(unless otherwise indicated, for every kind of regional protection available)*: ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— *with international search report*
— *with sequence listing part of description published separately in electronic form and available upon request from the International Bureau*

(88) Date of publication of the international search report:
27 July 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HOST-VECTOR SYSTEM FOR ANTIBIOTIC-FREE COLE1 PLASMID PROPAGATION

(57) Abstract: A host-vector system that uses the RNA-based copy number control mechanism of ColE1-type plasmids for regulating the expression of a marker gene allows for antibiotic-free selection of plasmids and is useful for production of plasmid DNA and recombinant proteins.

WO 2006/029985 A3