

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

(19) World Intellectual Property
Organization

International Bureau

(43) International Publication Date
19 October 2023 (19.10.2023)



(10) International Publication Number
WO 2023/201186 A1

(51) International Patent Classification:

CI2N 15/82 (2006.01) A01H 1/04 (2006.01)
CI2N 9/12 (2006.01) CI2Q 1/6895 (2018.01)

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).

(21) International Application Number:

PCT/US2023/065445

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))

(22) International Filing Date:

06 April 2023 (06.04.2023)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

63/329,964 12 April 2022 (12.04.2022) US

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(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,

(54) Title: PLANT REGULATORY ELEMENTS AND USES THEREOF FOR AUTOEXCISION

(57) Abstract: Recombinant DNA molecules and constructs are provided that are useful for modulating gene expression in plants. One or more expression cassette(s) of a recombinant DNA molecule or construct may be excised from transgenic plants following transformation by the presence of flanking site-specific recombination sites in the recombinant DNA molecule or construct by expression of a recombinase enzyme encoded by the recombinant DNA molecule or construct. Such a recombinase system may be used to remove such expression cassette(s) from plants transformed with the recombinant DNA construct or vector. The recombinase transgene may be operably linked to a promoter for autoexcision in transformed plants without crossing to a different transgenic line expressing the recombinase. Methods for causing autoexcision of one or more expression cassette(s) in a transgenic plant, and plants and cells containing or transformed with a recombinant DNA molecule or construct of the present disclosure, are also provided.



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