

Title (en)
PLANT DEFENSE GENE REGULATORY ELEMENTS

Publication
EP 0414809 A4 19911009 (EN)

Application
EP 89906880 A 19890518

Priority
• US 19712288 A 19880520
• US 34344589 A 19890426

Abstract (en)
[origin: WO8912059A1] The present invention discloses plant defense gene regulatory elements that can be "turned on", induced or otherwise activated by exogenous elicitors.

IPC 1-7
C07H 15/12; **G01N 33/00**; **C12N 15/00**; **G01N 33/48**

IPC 8 full level
A01H 1/00 (2006.01); **A01H 5/00** (2006.01); **A01N 63/00** (2006.01); **C07H 21/04** (2006.01); **C07K 5/037** (2006.01); **C07K 14/415** (2006.01); **C12N 9/10** (2006.01); **C12N 9/88** (2006.01); **C12N 15/09** (2006.01); **C12N 15/29** (2006.01); **C12N 15/82** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP)
C07K 14/415 (2013.01); **C12N 9/1037** (2013.01); **C12N 9/88** (2013.01); **C12N 15/8238** (2013.01); **C12N 15/8239** (2013.01); **C12Q 1/6897** (2013.01)

Citation (search report)

- [XO] JOURNAL OF CELLULAR BIOCHEMISTRY, supplement 12C, 1988, UCLA SYMPOSIA ON MOLECULAR & CELLULAR BIOLOGY, ABSTRACTS OF THE 17TH ANNUAL MEETING, 28th February - 10th April 1988, page 221, abstract no. L702, Alan R. Liss, Inc., New York, US; M. DRON et al.: "Elicitor regulation of a plant defense gene promoter in electroporated protoplasts"
- [XO] CURRENT COMMUNICATIONS IN MOLECULAR BIOLOGY: GENETIC IMPROVEMENTS OF AGRICULTURALLY IMPORTANT CROPS: PROGRESS AND ISSUES; MEETING, 1988, pages 31-36, Cold Spring Harbor Lab., New York, US; C.J. LAMB et al.: "Plant defense gene regulation"
- [XO] JOURNAL OF CELLULAR BIOCHEMISTRY, supplement 12C, 1988, UCLA SYMPOSIA ON MOLECULAR & CELLULAR BIOLOGY, ABSTRACTS OF THE 17TH ANNUAL MEETINGS, 28th February - 10th April 1988, page 228, abstract no. L707, Alan R. Liss, Inc., New York, US; M.A. LAWTON et al.: "Nuclear protein binding to a Cis-acting silencer in a defense gene promoter"
- [X] PROC. NATL. ACAD. SCI. USA, vol. 83, 1983, pages 5372-5376; J.R. ECKER et al.: "Inhibition of gene expression in plant cells by expression of antisense RNA"
- [X] PLANT PHYSIOL., vol. 87, 1988, pages 206-210; V.P.M. WINGATE et al.: "Glutathione causes a massive and selective induction of plant defense genes"
- [X] CHEMICAL ABSTRACTS, vol. 104, 1986, page 163, abstract no. 62996d, Columbus, Ohio, US; D.J. CUMMINGS et al.: "Excision-amplification of mitochondrial DNA during senescence in Podospora anserina. DNA sequence analysis of three unique "plasmids"", & J. MOL. BIOL. 1985, 185(4), 659-80
- [X] CHEMICAL ABSTRACTS, vol. 92, 1980, page 353, abstract no. 212263n, Columbus, Ohio, US; B. HOVEMANN et al.: "Analysis of a Drosophila tRNA gene cluster", & CELL (CAMBRIDGE, MASS.) 1980, 19(4), 889-95
- [XP] PROC. NATL. ACAD. SCI. USA, vol. 85, September 1988, pages 6738-6742; M. DRON et al.: "Glutathione and fungal elicitor regulation of a plant defense gene promoter in electroporated protoplasts"
- [A] MOL. GEN. GENET., vol. 210, 1987, pages 219-233, Springer-Verlag; T.B. RYDER et al.: "Organization and differential activation of a gene family encoding the plant defense enzyme chalcone synthase in Phaseolus vulgaris"
- See references of WO 8912059A1

Designated contracting state (EPC)
AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
WO 8912059 A1 19891214; EP 0414809 A1 19910306; EP 0414809 A4 19911009; JP H03504921 A 19911031

DOCDB simple family (application)
US 8902150 W 19890518; EP 89906880 A 19890518; JP 50647689 A 19890518