Title (en)

HYPERSENSITIVE RESPONSE ELICITOR FROM $i(AGROBACTERIUM VITIS)

Title (de)

ELICITOR DER HYPERSENSITIVEN ANTWORT AUS AGROBAKTERIUM VITIS

Title (fr)

ELICITEUR DE REACTION D'HYPERSENSIBILITE A PARTIR D'$i(AGROBACTERIUM VITIS)

Publication

EP 1127145 A2 20010829 (EN)

Application

EP 99961589 A 19991105

Priority

- US 9926079 W 19991105
- US 10738798 P 19981106

Abstract (en)

[origin: WO0028056A2] The present invention is directed to an isolated protein or polypeptide from Agrobacterium associated with production of a hypersensitive response, particularly Agrobacterium vitis. Also disclosed are isolated DNA molecules which encode such proteins or polypeptides. The protein or polypeptide in accordance with the present invention and the isolated DNA molecule that encode them have the following activities: imparting disease resistance to plants, enhancing plant growth, improving nutritional values, imparting stress tolerance, and/or controlling insects on plants. This can be achieved by applying the protein or polypeptide in a non-infectious from to plants or plant seeds under conditions effective to impart disease resistance, to enhance plant growth, to improve nutritional values, to enhance stress tolerance, and/or to control insects on plants or plants grown from the plant seeds. Alternatively, transgenic plants or plant seeds transformed with a DNA molecule encoding the protein and polypeptide can be provided and the transgenic plants or plants resulting from the transgenic plant seeds are grown under conditions effective to impart disease resistance, to enhance plant growth, to improve nutritional values, to enhance stress tolerance, and/or to control insects on plants or plants grown from the plant seeds.

IPC 1-7

C12N 15/82; C12N 15/31; C07K 14/195; C12N 5/10; A01H 5/00; A01N 63/02; A01C 1/00

IPC 8 full level

C07K 14/195 (2006.01); **C12N 15/31** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP)

C07K 14/195 (2013.01); **C12N 15/8279** (2013.01); **C12N 15/8282** (2013.01); **C12N 15/8286** (2013.01); Y02A 40/146 (2017.12)

Citation (search report)

See references of WO 0028056A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

WO 0028056 A2 20000518; **WO 0028056 A3 20001005**; **WO 0028056 A9 20010322**; AU 1813500 A 20000529; EP 1127145 A2 20010829

DOCDB simple family (application)

US 9926079 W 19991105; AU 1813500 A 19991105; EP 99961589 A 19991105