

Title (en)
ANTIBODIES AGAINST AVIRULENCE/PATHOGENICITY PROTEINS OF PLANT PATHOGENS

Title (de)
ANTIKÖRPER GEGEN AVIRULENZE/PATHOGENITÄTE PROTEINE VON PFLANZENPATHOGENEN

Title (fr)
ANTICORPS DIRIGES CONTRE LES PROTEINES D'AVIRULENCE OU DE PATHOGENICITE DES AGENTS PATHOGENES DES VEGETAUX

Publication
EP 0889960 A1 19990113 (EN)

Application
EP 97917024 A 19970325

Priority
• US 9704924 W 19970325
• US 62253896 A 19960325

Abstract (en)
[origin: WO9735980A1] The subject invention pertains to materials and methods that provide plants with resistance to plant pathogens and pests. Antibodies and aptamers that immunoreact or bind and inhibit the action of protein expression products from avirulence and/or pathogenicity genes, including, but not limited to, the Xanthomonas avr/pth family of such genes, are described. The antibodies of the subject invention function by blocking the action of the primary protein products of avr/pth genes by intercepting and denaturing them prior to their translocation to the plant nucleus. The method of the subject invention concerns transforming a plant with polynucleotide molecules that encode the antibodies. Expression of the antibodies in the plant confers resistance from pathogens and pests. The subject invention also pertains to polynucleotide molecules encoding the subject antibodies, as well as plants and plant tissue transformed with the polynucleotide molecules encoding the subject antibodies.

IPC 1-7
C12N 15/13; **C07K 16/12**; **A01N 63/02**; **A01H 5/00**

IPC 8 full level
C07K 16/12 (2006.01); **C12N 15/13** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP)
C07K 16/1203 (2013.01); **C12N 15/8279** (2013.01)

Citation (search report)
See references of WO 9735980A1

Cited by
US6822587B2

Designated contracting state (EPC)
AT BE CH DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9735980 A1 19971002; AU 2548597 A 19971017; BR 9708258 A 19990803; CN 1232502 A 19991020; EP 0889960 A1 19990113; IL 126250 A0 19990509

DOCDB simple family (application)
US 9704924 W 19970325; AU 2548597 A 19970325; BR 9708258 A 19970325; CN 97194125 A 19970325; EP 97917024 A 19970325; IL 12625097 A 19970325