

Title (en)
RECEPTOR-LIKE PROTEIN KINASES FROM NICOTIANA TABACUM

Title (de)
REZEPTORÄHNLICHE PROTEINKINASEN AUS NICOTIANA TABACUM

Title (fr)
PROTEINES KINASES DE TYPE RECEPTEUR EXTRAITES DE NICOTIANA TABACUM

Publication
EP 1250352 A1 20021023 (DE)

Application
EP 00983273 A 20001211

Priority

- DE 19961519 A 19991220
- EP 0012488 W 20001211

Abstract (en)
[origin: DE19961519A1] Nucleic acid (I) that encodes a plant polypeptide with the biological activity of a receptor-like protein kinase of sequence (2; 794 amino acids (aa)), reproduced. Independent claims are also included for the following: (a) regulatory regions (RR) that naturally control transcription of (I) in plant, especially tobacco, cells; (b) DNA construct containing (I) and a heterologous promoter; (c) vector containing (I), RR or the construct of (b); (d) host cells containing (I), the construct of (b) or the vector of (c); (e) polypeptide (II) with the activity of a receptor-like kinase encoded by (I) or having at least 60% identity with (2); (f) antibody (Ab) that binds specifically to (II); (g) method for preparing (I); (h) recombinant production of (II); (i) identifying compounds (A) that bind to (II); (j) identifying compounds (B) that alter expression of (II); (k) transgenic plants (or their derivatives) that, following insertion of (I), the construct of (b) or the vector of (c), have altered intracellular concentration of (II), relative to the wild-type; (l) plants (or derivatives) in which the biological activity or expression pattern of (II) differs from that in the wild-type; and (m) producing plants of (m) by endogenous mutation of (I) or RR.

IPC 1-7
C07K 14/415; C12N 15/82; C12N 9/12

IPC 8 full level
A01H 5/00 (2006.01); **C07K 14/415** (2006.01); **C07K 16/40** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12N 9/12** (2006.01); **C12N 15/09** (2006.01); **C12N 15/54** (2006.01); **C12N 15/82** (2006.01); **C12Q 1/02** (2006.01); **G01N 33/15** (2006.01); **G01N 33/50** (2006.01)

CPC (source: EP US)
C07K 14/415 (2013.01 - EP US); **C12N 9/1205** (2013.01 - EP US); **C12N 15/8293** (2013.01 - EP US); **C12N 15/8294** (2013.01 - EP US); **C12N 15/8295** (2013.01 - EP US)

Citation (search report)
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