

Title (en)  
PLANT ION CHANNELS AND METHODS

Title (de)  
PFLANZLICHE IONENKANÄLE UND VERFAHREN

Title (fr)  
CANAUX IONIQUES VEGETAUX ET METHODES

Publication  
**EP 1417315 A2 20040512 (EN)**

Application  
**EP 02768333 A 20020719**

Priority  
• US 0223180 W 20020719  
• US 30681901 P 20010720

Abstract (en)  
[origin: WO03007886A2] Recombinant plant receptor proteins are provided, as are nucleotide sequences encoding these proteins. The invention also provides recombinant vectors including the nucleotide sequences encoding the proteins. Further provided are plant host cells that include the recombinant vectors, transgenic plants and methods of using the nucleotide and amino acid sequences described herein, including methods of treating plants, methods of expressing the proteins described herein, methods of modifying receptor activity in a plant and methods of regulating plant metabolism. Inventive plant receptor proteins are expected to function as effective modulators of the effects of GABA.

IPC 1-7  
**C12N 15/63**; **C12N 15/64**; **C12N 15/82**; **C12N 15/90**; **A01H 5/00**; **A01H 5/10**

IPC 8 full level  
**A01H 5/00** (2006.01); **C07K 14/415** (2006.01); **C12N 5/10** (2006.01); **C12N 15/09** (2006.01); **C12N 15/29** (2006.01); **C12N 15/82** (2006.01); **C12P 21/02** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP)  
**C07K 14/415** (2013.01); **C12N 15/8261** (2013.01); **Y02A 40/146** (2017.12)

Citation (search report)  
See references of WO 03007886A2

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

DOCDB simple family (publication)  
**WO 03007886 A2 20030130**; **WO 03007886 A3 20031113**; CA 2453428 A1 20030130; EP 1417315 A2 20040512; IL 159936 A0 20040620; JP 2004535810 A 20041202; MX PA04000563 A 20040708

DOCDB simple family (application)  
**US 0223180 W 20020719**; CA 2453428 A 20020719; EP 02768333 A 20020719; IL 15993602 A 20020719; JP 2003513495 A 20020719; MX PA04000563 A 20020719