

Title (en)
PLANT LIGAND-GATED ION CHANNELS

Title (de)
LIGANDEN-GESTEUERTE IONENKANÄLE AUS PFLANZEN

Title (fr)
CANAUX D'IONS DE VEGETAUX DEPENDANT DE LIGANDS

Publication
EP 1158849 A4 20030730 (EN)

Application
EP 00917697 A 20000302

Priority
• US 0005407 W 20000302
• US 12250699 P 19990302

Abstract (en)
[origin: WO0052137A2] Recombinant plant proteins that are expected to function as ligand gated ion-channel proteins, such as GABA receptor proteins, are provided, as are nucleotide sequences encoding these proteins. The invention also provides recombinant vectors including the nucleotide sequences encoding the proteins described herein. Further provided are plant host cells that include the recombinant vectors described herein, transgenic plants and methods of using the nucleotide and amino acid sequences described herein, including methods of treating plants, method of expressing the proteins described herein, methods of modifying receptor activity in a plant and methods of regulating plant metabolism.

IPC 1-7
A01H 1/00; C07H 21/04; C07K 14/415; C12N 5/14; C12N 15/00; C12N 15/82

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 15/82** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP)
C07K 14/415 (2013.01); **C12N 15/8241** (2013.01); **C12N 15/8261** (2013.01); **Y02A 40/146** (2017.12)

Citation (search report)
• [PX] DATABASE GENEMBL [online] 9 August 1999 (1999-08-09), MEYERHOFF, O. ET AL.: "Arabidopsis thaliana ligand-gated channel-like protein precursor (GLUR3) mRNA, complete cds.", XP002242841, Database accession no. AF167355
• See references of WO 0052137A2

Cited by
CN104379746A

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 0052137 A2 20000908; **WO 0052137 A3 20010215**; AU 3863000 A 20000921; AU 776896 B2 20040923; CA 2364596 A1 20000908; EP 1158849 A2 20011205; EP 1158849 A4 20030730; IL 145233 A0 20020630; JP 2002541780 A 20021210; MX PA01008846 A 20031014; NZ 514010 A 20040227

DOCDB simple family (application)
US 0005407 W 20000302; AU 3863000 A 20000302; CA 2364596 A 20000302; EP 00917697 A 20000302; IL 14523300 A 20000302; JP 2000602749 A 20000302; MX PA01008846 A 20000302; NZ 51401000 A 20000302