

Title (en)

HERBICIDE TARGET GENE AND METHODS

Title (de)

HERBIZIDE GEZIELTE-GEN UND VERFAHREN

Title (fr)

GENE CIBLE D'HERBICIDE ET PROCEDES CORRESPONDANTS

Publication

EP 1141344 A2 20011010 (EN)

Application

EP 00901557 A 20000113

Priority

- EP 0000246 W 20000113
- US 23276099 A 19990115
- US 23747999 A 19990126
- US 24428899 A 19990203
- US 25233699 A 19990218
- US 28137699 A 19990330

Abstract (en)

[origin: WO0042205A2] The invention relates to genes isolated from Arabidopsis that code for proteins essential for seedling growth. The invention also includes the methods of using these proteins to discover new herbicides, based on the essentiality of the genes for normal growth and development. The invention can also be used in a screening assay to identify inhibitors that are potential herbicides. The invention is also applied to the development of herbicide tolerant plants, plant tissues, plant seeds, and plant cells.

IPC 1-7

C12N 15/82; **C12N 5/04**; **C12N 15/52**; **C12N 9/00**; **C07K 14/415**; **A01H 1/00**

IPC 8 full level

A01H 5/00 (2006.01); **C07K 14/415** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12N 15/09** (2006.01); **C12N 15/82** (2006.01); **C12Q 1/02** (2006.01); **G01N 33/15** (2006.01); **G01N 33/50** (2006.01); **G01N 33/566** (2006.01)

CPC (source: EP)

C07K 14/415 (2013.01); **C12N 15/8274** (2013.01)

Citation (search report)

See references of WO 0042205A2

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 0042205 A2 20000720; **WO 0042205 A3 20001207**; AU 2290900 A 20000801; CA 2362484 A1 20000720; CN 1341151 A 20020320; EP 1141344 A2 20011010; HK 1041287 A1 20020705; JP 2002534128 A 20021015

DOCDB simple family (application)

EP 0000246 W 20000113; AU 2290900 A 20000113; CA 2362484 A 20000113; CN 00803955 A 20000113; EP 00901557 A 20000113; HK 02101120 A 20020215; JP 2000593762 A 20000113