

Title (en)

PLANT S-ADENOSYLMETHIONIN:Mg-PROTOPORPHYRIN-IX-O-METHYLTRANSFERASE, PLANTS WITH VARIABLE CHLOROPHYLL CONTENTS AND/OR HERBICIDE TOLERANCE, AND METHOD FOR THE PRODUCTION THEREOF

Title (de)

PLANZLICHE S-ADENOSYLMETHIONIN: MG-PROTOPORPHYRIN-IX-O-METHYLTRANSFERASE, PFLANZEN MIT VERÄNDERTEM CHLOROPHYLLGEHALT UND/ODER HERBIZIDTOLERANZ

Title (fr)

S-ADENOSYLMETHIONIN:Mg-PROTOPORPHYRIN-IX-O-METHYLTRANSFERASE VEGETALE, VEGETAUX A TENEUR EN CHLOROPHYLLE VARIABLE ET/OU A TOLERANCE AUX HERBICIDES VARIABLE, ET PROCEDE DE PRODUCTION

Publication

**EP 1198578 A2 20020424 (DE)**

Application

**EP 00958357 A 20000802**

Priority

- DE 19935610 A 19990803
- DE 10014114 A 20000322
- EP 0007472 W 20000802

Abstract (en)

[origin: WO0109355A2] The invention relates to a nucleotide sequence coding for an S-adenosylmethionin:Mg-protoporphyrin-IX-O-methyltransferase and to a method for producing genetically modified plants with a capacity to control in various ways the chlorophyll biosynthesis mode and/or having a variable chlorophyll contents and/or having a variable herbicide tolerance. The invention relates to plants with a variable chlorophyll content and plants exhibiting a variable herbicide tolerance. It also relates to the use of plant PMT-nucleotide sequences for modifying the chlorophyll content of transgenic plants and for detecting effectors, especially inhibitors of plant PMT and herbicidally effective compounds.

IPC 1-7

**C12N 15/82**; C12N 9/10; C07K 14/415; C12N 1/21; C12N 1/19; A01H 5/00; C12Q 1/48; C12N 15/11

IPC 8 full level

**C07K 14/415** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 9/10** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP)

**C07K 14/415** (2013.01); **C12N 9/1007** (2013.01); **C12N 15/8243** (2013.01); **C12N 15/8274** (2013.01)

Citation (search report)

See references of WO 0109355A2

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 0109355 A2 20010208**; **WO 0109355 A3 20010907**; AU 6990800 A 20010219; EP 1198578 A2 20020424

DOCDB simple family (application)

**EP 0007472 W 20000802**; AU 6990800 A 20000802; EP 00958357 A 20000802