

Title (en)

MALATE DEHYDROGENASE AS A TARGET FOR HERBICIDES

Title (de)

MALAT DEHYDROGENASE ALS TARGET FÜR HERBIZIDE

Title (fr)

UTILISATION DE MALATE DESHYDROGENASE COMME CIBLE POUR DES HERBICIDES

Publication

EP 1587920 A1 20051026 (DE)

Application

EP 03789308 A 20031217

Priority

- EP 0314379 W 20031217
- DE 10261192 A 20021220

Abstract (en)

[origin: WO2004058956A1] The invention relates to the use of malate dehydrogenase, the absence of which causes growth retardation and chlorotic leaves and which is coded by the nucleic acid sequence SEQ ID NO:2 or a functional equivalent thereof, as a target for herbicides. Novel nucleic acid sequences comprising SEQ ID NO:2 and functional equivalents of SEQ ID NO:2 are provided in said framework. The invention also relates to the use of said malate dehydrogenase and the functional equivalents thereof in a method for identifying compounds having a herbicidal or growth-regulating effect and the use of the compounds identified via said method as herbicides or growth regulators.

IPC 1-7

C12N 9/02; G01N 33/50; C12N 15/82

IPC 8 full level

C12N 9/04 (2006.01); **C12N 15/82** (2006.01); **C12Q 1/32** (2006.01)

CPC (source: EP US)

C12N 9/0006 (2013.01 - EP US); **C12N 15/8274** (2013.01 - EP US); **C12Q 1/32** (2013.01 - EP US)

Citation (search report)

See references of WO 2004058956A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2004058956 A1 20040715; AU 2003293906 A1 20040722; CA 2510561 A1 20040715; EP 1587920 A1 20051026; JP 2006512069 A 20060413; US 2006058190 A1 20060316

DOCDB simple family (application)

EP 0314379 W 20031217; AU 2003293906 A 20031217; CA 2510561 A 20031217; EP 03789308 A 20031217; JP 2004562770 A 20031217; US 53854405 A 20050610