

Title (en)
METHODS FOR THE IDENTIFICATION OF INHIBITORS OF FERREDOXIN NADP OXIDOREDUCTASE EXPRESSION OR ACTIVITY IN PLANTS

Title (de)
VERFAHREN ZUR IDENTIFIZIERUNG VON INHIBITOREN DER FERREDOXIN-NADP-OXIDOREDUKTASE-EXPRESSION ODER -AKTIVITÄT IN PFLANZEN

Title (fr)
METHODES PERMETTANT D'IDENTIFIER DES INHIBITEURS D'EXPRESSION OU D'ACTIVITE D'OXYDOREDUCTASE DE FERREDOXINE NADP CHEZ DES PLANTES

Publication
EP 1414998 A1 20040506 (EN)

Application
EP 02750449 A 20020806

Priority
• US 0225111 W 20020806
• US 31039501 P 20010806

Abstract (en)
[origin: WO03014401A1] The present inventors have discovered that ferredoxin NADP oxidoreductase (FNR) is essential for plant growth. Specifically, the inhibition of FNR gene expression in plant seedlings resulted in seedlings that looked pale and very stunted. Thus, FNR can be used as a target for the identification of herbicides. Accordingly, the present invention provides methods for the identification of compounds that inhibit FNR expression or activity, comprising: contacting a compound with a FNR and detecting the presence and/or absence of binding between said compound and said a FNR, or detecting a decrease in FNR expression or activity. The methods of the invention are useful for the identification of herbicides.

IPC 1-7
C12N 15/52; **C12N 9/02**; **C12Q 1/26**; **C12Q 1/68**; **G01N 33/53**

IPC 8 full level
C12N 9/02 (2006.01); **C12N 15/52** (2006.01); **C12N 15/82** (2006.01); **C12Q 1/26** (2006.01); **G01N 33/50** (2006.01)

CPC (source: EP)
C12N 9/0095 (2013.01); **C12N 15/8274** (2013.01); **C12Q 1/26** (2013.01); **G01N 33/5097** (2013.01); **G01N 2333/415** (2013.01); **G01N 2430/20** (2013.01); **G01N 2800/52** (2013.01)

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 03014401 A1 20030220; EP 1414998 A1 20040506; EP 1414998 A4 20060208

DOCDB simple family (application)
US 0225111 W 20020806; EP 02750449 A 20020806