

Title (en)
PLANT ATP-PHOSPHORIBOSYL TRANSFERASE AND DNA CODING THEREFOR

Title (de)
PFLANZLICHE ATP-PHOSPHORIBOSYLTRANSFERASE UND DAFÜR KODIERENDE DNA

Title (fr)
ATP-PHOSPHORIBOSYL TRANSFERASE VEGETALE ET ADN LA CODANT

Publication
EP 0994952 A1 20000426 (EN)

Application
EP 98938705 A 19980724

Priority
• EP 9804652 W 19980724
• GB 9715905 A 19970728

Abstract (en)
[origin: WO9905286A1] The present invention provides an isolated DNA molecule encoding the ATP-phosphoribosyl transferase (APRT) enzyme from a plant source or modified forms of the enzyme which are herbicide tolerant. Using the information provided by the present invention, the DNA coding sequence for APRT enzyme(s) from any plant source may be obtained using standard methods. The present invention also embodies the recombinant production of the APRT enzyme, and methods for using recombinantly produced APRT. The present invention is further directed to probes and methods for detecting the presence and form of the APRT gene and quantitating levels of APRT transcripts in an organism. The present invention further embodies expression cassettes and recombinant vectors comprising the said expression cassettes comprising essentially a promoter, but especially a promoter that is active in a plant, operably linked to a DNA molecule encoding the APRT enzyme from a eukaryotic organism according to the invention. The invention is further directed to the preparation of transgenic plants, plant tissue and plant seed which has been stably transformed with a recombinant DNA molecule comprising a suitable promoter functional in plants operably linked to a structural gene encoding an unmodified or modified eukaryotic APRT enzyme.

IPC 1-7
C12N 15/54; **C12N 15/82**; **C12Q 1/48**; **C12Q 1/68**; **A01H 1/04**; **A01H 5/00**

IPC 8 full level
C12N 9/10 (2006.01); **C12N 15/54** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP)
C12N 9/1077 (2013.01); **C12N 15/8209** (2013.01); **C12N 15/8274** (2013.01)

Citation (search report)
See references of WO 9905286A1

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 9905286 A1 19990204; AU 8732698 A 19990216; EP 0994952 A1 20000426; GB 9715905 D0 19971001

DOCDB simple family (application)
EP 9804652 W 19980724; AU 8732698 A 19980724; EP 98938705 A 19980724; GB 9715905 A 19970728