

Title (en)

CAROTENE HYDROXYLASE AND METHOD FOR PRODUCING XANTHOPHYLL DERIVATIVES

Title (de)

CAROTINHYDROXYLASE UND VERFAHREN ZUR HERSTELLUNG VON XANTHOPHYLLDERIVATEN

Title (fr)

CAROTENE-HYDROXYLASE ET TECHNIQUE PERMETTANT DE PRODUIRE DES DERIVES DE XANTHOPHYLLE

Publication

EP 1173579 A1 20020123 (DE)

Application

EP 00917003 A 20000328

Priority

- DE 19916140 A 19990409
- EP 0002711 W 20000328

Abstract (en)

[origin: DE19916140A1] The invention relates to proteins with an enzymatic activity for converting beta -carotene into zeaxanthin or canthaxanthin into astaxanthin, to nucleic acids that code for these proteins, to nucleic acid constructs containing these nucleic acids, to genetically modified organisms in which the genetic modification causes or increases the gene expression of this nucleic acid compared with a wild type, and to methods for producing xanthophyll derivatives.

IPC 1-7

C12N 15/53; **C12N 9/02**; **C12P 23/00**

IPC 8 full level

C12N 15/09 (2006.01); **C12N 5/10** (2006.01); **C12N 9/02** (2006.01); **C12N 9/04** (2006.01); **C12N 15/53** (2006.01); **C12N 15/82** (2006.01); **C12P 7/02** (2006.01); **C12P 23/00** (2006.01)

CPC (source: EP KR US)

C12N 9/0004 (2013.01 - KR); **C12N 9/0069** (2013.01 - EP US); **C12N 15/8243** (2013.01 - EP US); **C12N 15/825** (2013.01 - EP US); **C12P 23/00** (2013.01 - EP US)

Citation (search report)

See references of WO 0061764A1

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)

DE 19916140 A1 20001012; AU 3814900 A 20001114; AU 777329 B2 20041014; BR 0009671 A 20020115; CA 2365906 A1 20001019; CN 1352689 A 20020605; EP 1173579 A1 20020123; JP 2002541809 A 20021210; KR 20020013847 A 20020221; MX PA01010992 A 20020514; NO 20014879 D0 20011008; NO 20014879 L 20011130; US 7041471 B1 20060509; WO 0061764 A1 20001019

DOCDB simple family (application)

DE 19916140 A 19990409; AU 3814900 A 20000328; BR 0009671 A 20000328; CA 2365906 A 20000328; CN 00808149 A 20000328; EP 0002711 W 20000328; EP 00917003 A 20000328; JP 2000611687 A 20000328; KR 20017012803 A 20011008; MX PA01010992 A 20000328; NO 20014879 A 20011008; US 95838002 A 20020122