

Title (en)  
NUCLEIC ACID MOLECULES WHICH CODE FOR ENZYMES DERIVED FROM WHEAT AND WHICH ARE INVOLVED IN THE SYNTHESIS OF STARCH

Title (de)  
NUCLEINSÄUREMOLEKÜLE CODIEREND ENZYME AUS WEIZEN, DIE AN DER STÄRKESYNTHESE BETEILIGT SIND

Title (fr)  
MOLECULES D'ACIDE NUCLEIQUE CODANT POUR DES ENZYMES ISSUES DU FROMENT ET PARTICIPANT A LA SYNTHÈSE DE L'AMIDON

Publication  
**EP 1095152 A2 20010502 (DE)**

Application  
**EP 99923557 A 19990507**

Priority  
• DE 19820607 A 19980508  
• EP 9903156 W 19990507

Abstract (en)  
[origin: DE19820607A1] A protein (I) with the activity of wheat starch synthase is new. Independent claims are also included for the following: (1) a nucleic acid (II) or its derivatives or complement, encoding (I) (2) vectors (III) containing (II); (3) host cells that are transformed with (II) or (III), or are derived from such cells; (4) recombinant production of (I); (5) transgenic plant cells (IV) that are transformed with (I) or (III), or derived from such cells, where (I) is under control of regulatory sequences functional in plants; (6) plants that contain (IV), and their propagative materials; (7) transgenic plant cells (also plants and propagative materials) in which the activity of (II) has been inhibited; and (8) starch produced by the materials of (f)-(h).

IPC 1-7  
**C12N 15/54**; **C12N 15/82**; **C12N 9/10**; **C12N 5/10**; **A01H 5/00**; **C08B 30/00**

IPC 8 full level  
**A21D 2/18** (2006.01); **A23L 29/212** (2016.01); **C08B 30/00** (2006.01); **C12N 5/10** (2006.01); **C12N 9/10** (2006.01); **C12N 15/09** (2006.01); **A01H 5/00** (2006.01); **C12N 15/54** (2006.01); **C12N 15/60** (2006.01); **C12N 15/82** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP KR US)  
**A21D 2/186** (2013.01 - EP US); **A23L 29/212** (2016.08 - EP US); **C12N 9/1051** (2013.01 - EP US); **C12N 15/52** (2013.01 - KR); **C12N 15/8245** (2013.01 - EP US)

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)  
**US 6890732 B1 20050510**; AU 4039199 A 19991129; BR 9910307 A 20010109; CA 2328508 A1 19991118; CN 1299415 A 20010613; DE 19820607 A1 19991111; EP 1095152 A2 20010502; HU P0101833 A2 20011028; JP 2002514427 A 20020521; KR 20010043457 A 20010525; NO 20005614 D0 20001107; NO 20005614 L 20010104; PL 345092 A1 20011203; SK 15772000 A3 20010611; WO 9958688 A2 19991118; WO 9958688 A3 20000113

DOCDB simple family (application)  
**US 67482400 A 20001106**; AU 4039199 A 19990507; BR 9910307 A 19990507; CA 2328508 A 19990507; CN 99805918 A 19990507; DE 19820607 A 19980508; EP 9903156 W 19990507; EP 99923557 A 19990507; HU P0101833 A 19990507; JP 2000548479 A 19990507; KR 20007012504 A 20001108; NO 20005614 A 20001107; PL 34509299 A 19990507; SK 15772000 A 19990507