

Title (en)
RECOMBINANT CELLULASES.

Title (de)
REKOMBINANTE ZELLULASEN.

Title (fr)
CELLULASES RECOMBINEES.

Publication
EP 0649471 A4 19970604 (EN)

Application
EP 93912457 A 19930624

Priority
• AU 9300307 W 19930624
• AU PL309692 A 19920624

Abstract (en)
[origin: WO9400578A1] A method of cloning of cellulase cDNA clones with enzymatical activity from an anaerobic rumen fungus including the steps of: (i) cultivation of an anaerobic rumen fungus; (ii) isolating total RNA from the culture in step (i); (iii) isolating poly A+ mRNA from the total RNA referred to in step (ii); (iv) constructing a cDNA expression library; (v) ligating cDNA to a bacteriophage expression vector selected from (lambda)ZAP, (lambda)ZAPII or vectors of similar properties; (vi) screening of cellulase positive recombinant clones in a culture medium incorporating cellulose by detection of cellulose hydrolysis; and (vii) purifying cellulase positive recombinant clones. There is also provided recombinant cellulase fungal cDNA clones produced by the abovementioned method as well as the recombinant cellulase cDNA clones, derived from (N. patriciarum), having the property of production of biologically functional cellulases in (E. coli) cells. There is also provided various cDNA molecules which may be utilised in the abovementioned method.

IPC 1-7
C12N 15/56; **C12N 9/42**; **C12N 9/24**

IPC 8 full level
C12N 15/09 (2006.01); **C12N 1/21** (2006.01); **C12N 9/24** (2006.01); **C12N 9/42** (2006.01); **C12N 15/56** (2006.01); **C12R 1/01** (2006.01); **C12R 1/19** (2006.01)

CPC (source: EP)
C12N 9/2437 (2013.01); **C12Y 302/01004** (2013.01)

Citation (search report)
• [A] WO 9110732 A1 19910725 - NOVO NORDISK AS [DK]
• [A] WO 8909259 A1 19891005 - NOVO INDUSTRI AS [DK]
• See references of WO 9400578A1

Designated contracting state (EPC)
AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)
WO 9400578 A1 19940106; CA 2139099 A1 19940106; EP 0649471 A1 19950426; EP 0649471 A4 19970604; FI 945994 A0 19941221; FI 945994 A 19950220; JP H07507928 A 19950907

DOCDB simple family (application)
AU 9300307 W 19930624; CA 2139099 A 19930624; EP 93912457 A 19930624; FI 945994 A 19941221; JP 50188394 A 19930624