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(54) Title: THERMOSTABLE CELLULASE

(57) Abstract: Disclosed are variant thermostable cellulases, nucleic acids encoding the variants and methods for producing the variants. The variant thermostable cellulases have the amino acid sequence of a glycosyl hydrolase of family 12 wherein one or more amino acid residues which are not part of the catalytic domain are deleted. In specific embodiments, the variant thermostable cellulase is a variant of Cell2A of *Rhodothermus marinus*.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/IS 01/00012

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C07K14/195 C12N9/42 //C12N15/62

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C07K C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P,X	K B WICHER ET AL: "Deletion of a cytotoxic, N-terminal putative signal peptide results in a significant increase in production yields in Esterichia coli and improved specific activity of Cel12A from Rhodothermus marinus" APPL. MICROBIOL BIOTECHNOL, vol. 55, 2001, pages 578-584, XP002902256 the whole document --- -/--	1-56

[X] Further documents are listed in the continuation of box C.

[X] Patent family members are listed in annex.

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Date of the actual completion of the international search	Date of mailing of the international search report
28 January 2002	14. 02. 2002

Name and mailing address of the ISA	Authorized officer
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	WO 00 37614 A (GENENCOR INT) 29 June 2000 (2000-06-29) page 3, line 28 - line 32; claims	1-7, 11-13, 17,18, 28-30, 42-56
A		8-10, 14-16, 19-27, 31-41

X	WO 98 33895 A (NOVONORDISK AS) 6 August 1998 (1998-08-06) page 7, line 32 - line 39 the whole document	1-7, 11-13, 17,18, 25-33, 42-56
A		8-10, 14-16, 19-24, 34-41

X	WO 00 09707 A (GENENCOR INT) 24 February 2000 (2000-02-24) the whole document	1-14, 28-33, 42-56
A		15-27, 34-41

X	WO 99 31255 A (GENENCOR INT) 24 June 1999 (1999-06-24) page 3, line 23 page 17, line 30 - line 33 page 20, line 6 - line 9; claims 1,12,13	1-7, 11-13, 17,18, 25-33, 42-56
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A		3,4, 8-27, 31-41

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INTERNATIONAL SEARCH REPORT

International Application No
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PC., IS 01/00012

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