

Title (en)
POLYPEPTIDES HAVING BETA-GLUCOSIDASE ACTIVITY AND POLYNUCLEOTIDES ENCODING SAME

Title (de)
POLYPEPTIDE MIT BETA-GLUCOSIDASE-AKTIVITÄT UND DAFÜR KODIERENDE POLYNUKLEOTIDE

Title (fr)
POLYPEPTIDES PRÉSENTANT UNE ACTIVITÉ DE BÊTA-GLUCOSIDASE ET POLYNUCLÉOTIDES CODANT POUR CEUX-CI

Publication
EP 2794872 A4 20151209 (EN)

Application
EP 12860010 A 20121219

Priority
• CN 2011084228 W 20111219
• CN 2012086938 W 20121219

Abstract (en)
[origin: WO2013091544A1] Provided are isolated polypeptides having beta-glucosidase activity and polynucleotides encoding the polypeptides. Also provided are nucleic acid constructs, vectors and host cells comprising the polynucleotides as well as methods of producing and using the polypeptides.

IPC 8 full level
C12N 9/42 (2006.01); **A01H 1/00** (2006.01); **C12N 15/52** (2006.01); **C12P 19/14** (2006.01)

CPC (source: EP US)
C12N 9/2445 (2013.01 - EP US); **C12N 15/1137** (2013.01 - US); **C12N 15/8246** (2013.01 - EP US); **C12N 15/8257** (2013.01 - US); **C12P 19/02** (2013.01 - US); **C12P 19/14** (2013.01 - EP US); **C12Y 302/01021** (2013.01 - EP US)

Citation (search report)
• [X] WO 2011066457 A2 20110603 - CODEXIS INC [US], et al
• [E] WO 2014060379 A1 20140424 - DSM IP ASSETS BV [NL], et al
• [E] WO 2014059541 A1 20140424 - UNIV CONCORDIA [CA]
• [I] LEONTINA GURGU ET AL: "Fermentation of cellobiose to ethanol by industrial strains carrying the beta-glucosidase gene (BGL1) from *Saccharomyces fibuligera*", BIORESOURCE TECHNOLOGY, ELSEVIER BV, GB, vol. 102, no. 8, 19 January 2011 (2011-01-19), pages 5229 - 5236, XP028162740, ISSN: 0960-8524, [retrieved on 20110125], DOI: 10.1016/J.BIORTECH.2011.01.062
• [A] COLLINS ET AL: "Molecular cloning and expression analysis of two distinct beta-glucosidase genes, bg1 and aven1, with very different biological roles from the thermophilic, saprophytic fungus *Talaromyces emersonii*", MYCOLOGICAL RESEARCH, ELSEVIER, GB, vol. 111, no. 7, 6 August 2007 (2007-08-06), pages 840 - 849, XP022188075, ISSN: 0953-7562, DOI: 10.1016/J.MYCRES.2007.05.007
• [A] SAUMITA BANERJEE ET AL: "Commercializing lignocellulosic bioethanol: technology bottlenecks and possible remedies", BIOFUELS, BIOPRODUCTS AND BIOREFINING, vol. 4, no. 1, 1 January 2010 (2010-01-01), pages 77 - 93, XP055200685, ISSN: 1932-104X, DOI: 10.1002/bbb.188
• [A] ROSGAARD LISA ET AL: "Efficiency of new fungal cellulase systems in boosting enzymatic degradation of barley straw lignocellulose", BIOTECHNOLOGY PROGRESS, AMERICAN INSTITUTE OF CHEMICAL ENGINEERS, US, vol. 22, no. 2, 1 March 2006 (2006-03-01), pages 493 - 498, XP002565690, ISSN: 8756-7938, [retrieved on 20060324], DOI: 10.1021/BP050361O
• [A] KRISTIAN B R M KROGH ET AL: "Characterization and kinetic analysis of a thermostable GH3 beta-glucosidase from *Penicillium brasilianum*", APPLIED MICROBIOLOGY AND BIOTECHNOLOGY, SPRINGER, BERLIN, DE, vol. 86, no. 1, 16 September 2009 (2009-09-16), pages 143 - 154, XP019799835, ISSN: 1432-0614
• [A] RAJ KUMAR ET AL: "Bioconversion of lignocellulosic biomass: biochemical and molecular perspectives", JOURNAL OF INDUSTRIAL MICROBIOLOGY & BIOTECHNOLOGY ; OFFICIAL JOURNAL OF THE SOCIETY FOR INDUSTRIAL MICROBIOLOGY, SPRINGER, BERLIN, DE, vol. 35, no. 5, 13 March 2008 (2008-03-13), pages 377 - 391, XP019596328, ISSN: 1476-5535
• See references of WO 2013091544A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2013091544 A1 20130627; BR 112014014760 A2 20170613; EP 2794872 A1 20141029; EP 2794872 A4 20151209; US 2014331364 A1 20141106; US 9771568 B2 20170926

DOCDB simple family (application)
CN 2012086938 W 20121219; BR 112014014760 A 20121219; EP 12860010 A 20121219; US 201214358865 A 20121219