

Title (en)

METHOD OF PRODUCING FACTOR VIII PROTEINS BY RECOMBINANT METHODS

Title (de)

VERFAHREN ZUR HERSTELLUNG VON FAKTOR-VIII-PROTEINEN DURCH REKOMBINATIONSVORFAHREN

Title (fr)

PROCÉDÉ DE PRODUCTION DE PROTÉINES DU FACTEUR VIII PAR DES PROCÉDÉS RECOMBINANTS

Publication

EP 2714909 A4 20141217 (EN)

Application

EP 12796718 A 20120601

Priority

- US 201113153040 A 20110603
- US 2012040376 W 20120601

Abstract (en)

[origin: WO2012170289A1] Provided herein are methods and compositions for producing Factor VIII proteins. Such methods include introducing into a cell a nucleic acid molecule encoding a Factor VIII protein operably linked to a promoter, wherein the promoter is characterized by the ability to produce commercially viable Factor VIII protein; and incubating the cell under conditions for producing commercially viable Factor VIII protein. Also provided are nucleic acid molecules which encode a Factor VIII protein operably linked to a Chinese hamster elongation factor 1-a (CHEF1) promoter, which may be used in the methods provided herein.

IPC 8 full level

C12N 15/12 (2006.01); **A61K 38/37** (2006.01); **A61P 7/04** (2006.01); **C07K 14/755** (2006.01); **C12Q 1/68** (2006.01)

CPC (source: EP)

A61P 7/04 (2017.12); **C07K 14/755** (2013.01); **A61K 38/00** (2013.01)

Citation (search report)

- [Y] WO 2008005847 A2 20080110 - UNIV MICHIGAN [US], et al
- [XY] KERRY L. DOORISS ET AL: "Comparison of Factor VIII Transgenes Bioengineered for Improved Expression in Gene Therapy of Hemophilia A", HUMAN GENE THERAPY, vol. 20, no. 5, 1 May 2009 (2009-05-01), pages 465 - 478, XP055136766, ISSN: 1043-0342, DOI: 10.1089/hum.2008.150
- [XY] N. J. WARD ET AL: "Codon optimization of human factor VIII cDNAs leads to high-level expression", BLOOD, vol. 117, no. 3, 20 January 2011 (2011-01-20), pages 798 - 807, XP055052195, ISSN: 0006-4971, DOI: 10.1182/blood-2010-05-282707
- [A] MIAO HONGZHI Z ET AL: "Bioengineering of coagulation factor VIII for improved secretion", BLOOD, AMERICAN SOCIETY OF HEMATOLOGY, US, vol. 103, no. 9, 1 May 2004 (2004-05-01), pages 3412 - 3419, XP002452857, ISSN: 0006-4971, DOI: 10.1182/BLOOD-2003-10-3591
- See references of WO 2012170289A1

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 2012170289 A1 20121213; CA 2837995 A1 20121213; EP 2714909 A1 20140409; EP 2714909 A4 20141217

DOCDB simple family (application)

US 2012040376 W 20120601; CA 2837995 A 20120601; EP 12796718 A 20120601