

Title (en)

ENHANCING GAMMA-CARBOXYLATION OF RECOMBINANT VITAMIN K-DEPENDENT PROTEINS.

Title (de)

STEIGERUNG DER GAMMA-CARBOXYLATION VON REKOMBINANTEN, VITAMIN-K-ABHÄNGIGEN PROTEINEN.

Title (fr)

AMELIORATION DE LA GAMMA-CARBOXYLATION DE PROTEINES RECOMBINANTES DEPENDANTES DE LA VITAMINE K.

Publication

**EP 0289586 A4 19900410 (EN)**

Application

**EP 88900051 A 19871117**

Priority

US 93165186 A 19861117

Abstract (en)

[origin: WO8803926A1] A DNA sequence including a first DNA sequence encoding a human vitamin K-dependent protein having fused to its 5' end a second DNA sequence not identical to the propeptide encoding sequence naturally associated with the DNA sequence encoding the protein, the non-naturally occurring propeptide encoding sequence being capable of encoding a propeptide which is capable of enhancing the gamma-carboxylation of the protein when the protein is expressed in a recombinant eukaryotic cell.

IPC 1-7

**C07H 21/04**; **C12N 15/00**; **C12P 21/00**

IPC 8 full level

**C07H 21/04** (2006.01); **C12N 9/74** (2006.01); **C12N 15/09** (2006.01); **C12N 15/62** (2006.01); **C12P 21/00** (2006.01); **C12R 1/91** (2006.01)

CPC (source: EP)

**C12N 9/6429** (2013.01); **C12N 15/62** (2013.01); **C12Y 304/21005** (2013.01); **C07K 2319/00** (2013.01); **C07K 2319/02** (2013.01)

Citation (search report)

- [Y] EP 0195592 A2 19860924 - NAT RES DEV [GB]
- [E] EP 0266190 A2 19880504 - ZYMOGENETICS INC [US]
- [XP] EP 0200421 A2 19861105 - ZYMOGENETICS INC [US]
- [XD] BIOCHEMISTRY, vol. 22, 1983, pages 2087-2097, American Chemical Society; S.J. FRIEZNER et al.: "Characterization of the complementary deoxyribonucleic acid and gene coding for human prothrombin"
- [AD] THE JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 261, no. 21, 25th July 1986, pages 9622-9628, The American Society of Biological Chemists, Inc.; R.J. KAUFMAN et al.: "Expression, Purification, and characterization of recombinant  $\gamma$ -carboxylated factor IX synthesized in chinese hamster ovary cells"
- See references of WO 8803926A1

Designated contracting state (EPC)

AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)

**WO 8803926 A1 19880602**; AU 8339187 A 19880616; EP 0289586 A1 19881109; EP 0289586 A4 19900410; JP H01502080 A 19890727

DOCDB simple family (application)

**US 8703015 W 19871117**; AU 8339187 A 19871117; EP 88900051 A 19871117; JP 50045588 A 19871117