Title (en)

NUCLEOTIDE SEQUENCES OF CORYNEFORM BACTERIA CODING FOR PROTEINS INVOLVED IN L-SERINE METABOLISM AND METHOD FOR PRODUCING L-SERINE

Title (de)

NUKLEOTIDSEQUENZEN CORYNEFORMER BAKTERIEN CODIEREND FÜR AM L -SERINSTOFFWECHSEL BETEILIGTE PROTEINE SOWIE VERFAHREN ZUR MIKROBIELLEN HERSTELLUNG VON L-SERIN

Title (fr)

SEQUENCES DE NUCLEOTIDES DE BACTERIES DE FORME CORYNEENNE CODANT DES PROTEINES INTERVENANT DANS LE METABOLISME DE LA L-SERINE ET PROCEDES DE PRODUCTION DE L-SERINE

Publication

EP 1601773 A2 20051207 (DE)

Application

EP 04710333 A 20040212

Priority

- DE 2004000248 W 20040212
- DE 10311399 A 20030313

Abstract (en)

[origin: DE10311399A1] Nucleic acid (I), optionally recombinant and replicable in Corynebacterium, has the sequence for L-serine dehydratase (II): (a) partly or completely deleted or mutated; or (b) expressed at a lower level, relative to the natural sequence, or not at all. Independent claims are also included for: (1) gene structure (GS) comprising (I) and linked regulatory elements; (2) vector containing (I) or GS, also sequences for selection, replication in a host cell or integration into the host cell genome; (3) (II) with reduced activity, encoded by (I); (4) microorganism that contains (I); (5) probe for identification and/or isolation of genes that encode proteins involved in biosynthesis of L-serine, derived from (I) and labeled to allow detection; and (6) microbial production of L-serine by growing microorganisms of (4).

IPC 1-7

C12N 15/60; C12N 9/88; C12P 13/06; C12N 1/21

IPC 8 full level

C12N 1/21 (2006.01); **C12N 9/88** (2006.01); **C12N 15/53** (2006.01); **C12N 15/60** (2006.01); **C12P 13/06** (2006.01)

CPC (source: EP KR US)

C12N 1/20 (2013.01 - KR); **C12N 9/88** (2013.01 - EP KR US); **C12N 15/52** (2013.01 - KR); **C12P 13/06** (2013.01 - EP KR US)

Citation (search report)

See references of WO 2004081166A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 10311399 A1 20040923; AU 2004220016 A1 20040923; AU 2004220016 B2 20090716; BR PI0408219 A 20060214; DK 200900060 U3 20090710; EP 1601773 A2 20051207; JP 2006519598 A 20060831; KR 20050108387 A 20051116; MX PA05009796 A 20051026; US 2006204963 A1 20060914; US 2009061482 A1 20090305; US 8119374 B2 20120221; WO 2004081166 A2 20040923; WO 2004081166 A3 20050317; ZA 200508232 B 20070425

DOCDB simple family (application)

DE 10311399 A 20030313; AU 2004220016 A 20040212; BR PI0408219 A 20040212; DE 2004000248 W 20040212; DK BA200900060 U 20090320; EP 04710333 A 20040212; JP 2006504233 A 20040212; KR 20057017047 A 20050912; MX PA05009796 A 20040212; US 13619008 A 20080610; US 54926204 A 20040212; ZA 200508232 A 20051012