Title (en)
   BIOGENETIC CASSETTE.

Title (de)
   BIOGENETISCHE KASSETTE.

Title (fr)
   CASSETTE BIOGENETIQUE.

Publication
   EP 0245497 A4 19890627 (EN)

Application
   EP 87900378 A 19861112

Priority
   • US 79742185 A 19851112
   • US 92014686 A 19861016

Abstract (en)
   [origin: WO8702984A1] A method for genetically engineering microbial strains which produce amino acids and other specialty chemicals comprising the molecular cloning of DNA chromosome fragments of the total genes involved in the biosynthesis of said chemicals and by genetic engineering, and/or mutation, removal of all biochemical and genetic regulation controlling the synthesis of such chemicals. Use may be made of a vector DNA molecule capable of providing amplification of the hybrid DNA construct containing the genes required for the biosynthesis of said chemicals. The resulting hybrid DNA molecule or biogenetic cassette is useful for transforming cells of an appropriate recipient strain capable of increased productivity of said chemicals. Also disclosed is a method of making a biogenetic cassette for catabolic pathways, including methanol utilization. Combination biogenetic cassettes, permitting, for example, the biosynthesis of a particular amino acid using methanol as a feedstock are also disclosed.

IPC 1-7
   C07H 21/04; C12N 15/00

IPC 8 full level
   C12N 1/32 (2006.01); **C12N 15/52** (2006.01); **C12N 15/70** (2006.01); **C12P 13/06** (2006.01)

CPC (source: EP)
   C12N 1/32 (2013.01); **C12N 15/52** (2013.01); **C12N 15/70** (2013.01); **C12P 13/06** (2013.01)

Citation (search report)
   • WO 8700202 A1 19870115 - NUTRASWEET CO [US]
   • WO 8701130 A1 19870226 - STAUFFER CHEMICAL CO [US]
   • EP 0173378 A2 19860305 - UNILEVER NV [NL], et al
   • See references of WO 8702984A1

Designated contracting state (EPC)
   AT BE CH DE FR GB IT LI LU NL SE

DOCDB simple family (publication)
   WO 8702984 A1 19870521; AU 6737287 A 19870602; EP 0245497 A1 19871119; EP 0245497 A4 19890627

DOCDB simple family (application)
   US 8602440 W 19861112; AU 6737287 A 19861112; EP 87900378 A 19861112