

Title (en)

METHODS FOR PRODUCING A POLYPEPTIDE BY MODIFYING THE COPY NUMBER OF A GENE

Title (de)

METHODEN ZUR HERSTELLUNG EINES POLYPEPTIDES DURCH MODIFIZIERUNG DER KOPIEZAHL DES GENS

Title (fr)

PROCEDE DE PRODUCTION D'UN POLYPEPTIDE EN MODIFIANT LE NOMBRE DE COPIES D'UN GENE

Publication

EP 1080210 A2 20010307 (EN)

Application

EP 99925956 A 19990527

Priority

- US 9911816 W 19990527
- US 8550598 A 19980527

Abstract (en)

[origin: WO9961651A2] The present invention relates to methods for producing a polypeptide, comprising: (a) cultivating a mutant cell under conditions conducive for production of the polypeptide, wherein (i) the mutant cell is related to a parent cell, which parent cell comprises at least two tandem copies of a nucleic acid sequence encoding the polypeptide or a nucleic acid sequence encoding the polypeptide, which nucleic acid sequence comprises repeat sequences at the 5' and 3' ends of the nucleic acid sequence, by the introduction of a nucleic acid construct into the genome of the parent cell at a locus which is within or not within the nucleic acid sequence(s), wherein the introduction of the nucleic acid construct into the locus modifies the copy number of the nucleic acid sequence(s) and the modification of the copy number is not a result of selective pressure; and (ii) the mutant cell produces more or less of the polypeptide than the parent cell when both cells are cultivated under the same conditions; and (b) recovering the polypeptide from the cultivation medium. The present invention also relates to methods for obtaining a mutant cell and mutant cells.

IPC 1-7

C12N 15/67; **C12N 15/69**; **C12N 15/55**; **C12N 15/56**; **C12N 15/90**; **C12N 9/20**; **C12N 9/42**; **C12N 1/14**; **C12P 21/02**

IPC 8 full level

C12N 1/15 (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12N 9/20** (2006.01); **C12N 9/42** (2006.01); **C12N 15/09** (2006.01); **C12N 15/69** (2006.01); **C12N 15/90** (2006.01); **C12P 21/02** (2006.01)

CPC (source: EP)

C12N 9/20 (2013.01); **C12N 9/2437** (2013.01); **C12N 15/69** (2013.01); **C12N 15/902** (2013.01); **C12P 21/02** (2013.01); **C12Y 302/01004** (2013.01)

Citation (search report)

See references of WO 9961651A2

Designated contracting state (EPC)

AT BE CH DE DK ES FI FR GB GR IE IT LI NL PT SE

DOCDB simple family (publication)

WO 9961651 A2 19991202; **WO 9961651 A3 20000302**; AU 4213999 A 19991213; CN 1307642 A 20010808; EP 1080210 A2 20010307; JP 2002516116 A 20020604

DOCDB simple family (application)

US 9911816 W 19990527; AU 4213999 A 19990527; CN 99808098 A 19990527; EP 99925956 A 19990527; JP 2000551031 A 19990527