

Title (en)

INSERTION OF MULTICOPIES OF A GENE OF INTEREST INTO THE GENOME OF A FUNGUS

Title (de)

INSERTION VON MULTIKOPIEN EINES GENS VON INTERESSE IN DAS GENOM EINES PILZES

Title (fr)

INSERTION MULTICOPIES D'UN GÈNE D'INTÉRÊT DANS LE GÉNOME D'UN CHAMPIGNON

Publication

EP 4330401 A1 20240306 (FR)

Application

EP 22726786 A 20220429

Priority

- FR 2104588 A 20210430
- FR 2022050826 W 20220429

Abstract (en)

[origin: WO2022229574A1] The invention relates to a method for inserting a plurality of copies of a gene of interest into the genome of a fungus, said method comprising a step of transforming said fungus using a vector comprising an expression cassette, wherein said expression cassette comprises: (1) a TEF1 promoter identical to the endogenous TEF1 promoter of the species of fungus, (2) a gene of interest, and (3) a terminator, with the exception of the endogenous TEF1 terminator of the species of fungus. The invention also relates to the fungi obtained using such a method, and to the various uses of the strains thus modified.

IPC 8 full level

C12N 15/80 (2006.01); **C12N 1/14** (2006.01); **C12N 1/22** (2006.01); **C12P 1/02** (2006.01); **C12P 7/10** (2006.01); **C12P 19/02** (2006.01)

CPC (source: EP)

C07K 14/37 (2013.01); **C12N 15/80** (2013.01); **C12P 1/02** (2013.01); **C12P 7/04** (2013.01); **C12P 7/10** (2013.01); **C12P 19/02** (2013.01); **C12P 19/14** (2013.01); **C12P 21/02** (2013.01); **C12P 2201/00** (2013.01); **C12P 2203/00** (2013.01); **C12R 2001/885** (2021.05)

Citation (search report)

See references of WO 2022229574A1

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

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022229574 A1 20221103; BR 112023022450 A2 20231226; CA 3215584 A1 20221103; CN 117355610 A 20240105; EP 4330401 A1 20240306; FR 3122436 A1 20221104

DOCDB simple family (application)

FR 2022050826 W 20220429; BR 112023022450 A 20220429; CA 3215584 A 20220429; CN 202280031948 A 20220429; EP 22726786 A 20220429; FR 2104588 A 20210430