

Title (en)

SUBSTITUTION OF THE MESSENGER RNA CAP WITH TWO RNA SEQUENCES INTRODUCED AT THE 5' END THEREOF

Title (de)

SUBSTITUTION DER MESSENGER-RNA-KAPPE MIT ZWEI AN DESSEN 5' -ENDE EINGEFÜHRTE RNA-SEQUENZEN

Title (fr)

SUBSTITUTION DE LA COIFFE DES ARN MESSAGERS PAR DEUX SÉQUENCES D'ARN INTRODUITES À LEUR EXTRÉMITÉ 5

Publication

**EP 3794144 A1 20210324 (FR)**

Application

**EP 19730400 A 20190515**

Priority

- FR 1854052 A 20180515
- FR 2019051103 W 20190515

Abstract (en)

[origin: WO2019220058A1] The invention relates to a messenger ribonucleic acid (mRNA) molecule devoid of a capping molecule, of which the cost of in vitro transcription synthesis is greatly reduced, comprising, from 5'-end to 3'-end, at least one copy of a consensus sequence GUCAGRYC(N7-19)GCCA(N2-19) UGCNRYCUG which is resistant to exoribonuclease Xrn1, a copy of an internal ribosome entry site (IRES) RNA sequence, and an open reading phase.

IPC 8 full level

**C12Q 1/6865** (2018.01); **C12N 15/115** (2010.01); **C12N 15/67** (2006.01); **C12P 19/34** (2006.01); **C12P 21/02** (2006.01)

CPC (source: EP US)

**A61P 37/04** (2017.12 - US); **C07K 14/005** (2013.01 - US); **C12N 7/00** (2013.01 - US); **C12N 15/115** (2013.01 - US); **C12N 15/67** (2013.01 - EP); **C12P 19/34** (2013.01 - EP); **C12N 2310/16** (2013.01 - US); **C12N 2310/3513** (2013.01 - US); **C12N 2770/32222** (2013.01 - US); **C12N 2770/32271** (2013.01 - US); **C12P 21/02** (2013.01 - EP)

Citation (search report)

See references of WO 2019220058A1

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

DOCDB simple family (publication)

**WO 2019220058 A1 20191121**; AU 2019270556 A1 20201126; CA 3136882 A1 20191121; CN 112567046 A 20210326; EP 3794144 A1 20210324; FR 3081169 A1 20191122; FR 3081169 B1 20200619; JP 2021522849 A 20210902; US 2021214729 A1 20210715

DOCDB simple family (application)

**FR 2019051103 W 20190515**; AU 2019270556 A 20190515; CA 3136882 A 20190515; CN 201980040513 A 20190515; EP 19730400 A 20190515; FR 1854052 A 20180515; JP 2020564651 A 20190515; US 201917055061 A 20190515