

Title (en)  
METHODS FOR CELL FREE PROTEIN EXPRESSION OF MATURE POLYPEPTIDES DERIVED FROM ZYMOGENS AND PROPROTEINS

Title (de)  
VERFAHREN ZUR ZELLFREIEN PROTEINEXPRESSION VON REIFEN POLYPEPTIDEN AUS ZYMOGENEN UND PROPROTEINEN

Title (fr)  
PROCÉDÉS POUR L'EXPRESSION DE PROTÉINES ACELLULAIRES DE POLYPEPTIDES MATURES DÉRIVÉS DE ZYMOGÈNES ET DE PROPROTÉINES

Publication  
**EP 4114931 A1 20230111 (EN)**

Application  
**EP 20923242 A 20200903**

Priority  
• US 2020021211 W 20200305  
• US 2020049226 W 20200903

Abstract (en)  
[origin: WO2021178001A1] High throughput cell free protein synthesis methods and systems are provided for expression of active, mature enzymes and proteins derived from zymogens and proproteins. Zymogens and proproteins are expressed in their mature, active form in a cell free expression system, without cleavage of a pro-sequence to produce the active polypeptide.

IPC 8 full level  
**C12N 9/10** (2006.01); **C12N 15/52** (2006.01)

CPC (source: EP KR)  
**A01N 25/10** (2013.01 - KR); **A01N 25/28** (2013.01 - KR); **A01N 63/50** (2020.01 - EP KR); **A01P 1/00** (2021.08 - EP);  
**A61K 8/66** (2013.01 - EP KR); **A61K 8/736** (2013.01 - EP KR); **A61K 9/1652** (2013.01 - EP KR); **A61Q 19/00** (2013.01 - EP KR);  
**C12N 9/1044** (2013.01 - EP KR); **C12N 15/52** (2013.01 - EP); **A61K 2800/10** (2013.01 - EP KR); **A61K 2800/524** (2013.01 - EP KR);  
**A61K 2800/57** (2013.01 - EP KR); **C12Y 203/02013** (2013.01 - EP KR); **Y02A 50/30** (2018.01 - EP)

C-Set (source: EP)  
**A01N 63/50 + A01N 25/10 + A01N 25/28**

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 2021178001 A1 20210910**; EP 4114931 A1 20230111; EP 4114931 A4 20240501

DOCDB simple family (application)  
**US 2020049226 W 20200903**; EP 20923242 A 20200903