

Title (en)
COLISTIN SYNTHETASES AND CORRESPONDING GENE CLUSTER

Title (de)
COLISTIN-SYNTHETASEN UND ENTSPRECHENDES GENCLUSTER

Title (fr)
SYNTHETASES DE LA COLISTINE ET CLUSTER DE GENES CORRESPONDANTS

Publication
EP 3099790 A2 20161207 (FR)

Application
EP 15704379 A 20150126

Priority
• FR 1450641 A 20140127
• IB 2015050571 W 20150126

Abstract (en)
[origin: WO2015111013A2] Synthetase PmxA involved in the synthesis of polymyxin E, comprising four adenylation sites, characterised in that the second adenylation site has at least 90% identity with the peptide sequence SEQ ID NO 1: VTEAEKADLLGRFNDTTTEFPRGKTLIQLFEEQVERIPDAAAITLNEQE LTYRELNERVNLARTLRSHGISKGRVLVAILAERSIEMVVGMLAAHKAGAAYVPI DPEYPEERIRFLIEDSGGQVMLTQSRLRERLAGSDPVILLDDSFYHEDGTNLNTGI EATDLACVIYTS GTTGKPKGNPVSHRNIVRVQNTNYIDITERDHVLQLSSYSF<u>DG</u> AT<u>F</u> u>DIFGALTNGARLVLPYETLLEIGRLADLIQRERISVM<u>F</u> ITTAFNNILVDVNVD CLRDVRAI<u>L</u> u>F<u>G</u> GERVSUGHVRKALAHIGPGRNLNH<u>V</u> YGPTTEST<u>VY</u> TTYLPVDFVDE LAVTVPIGRPISNTTVYIVDSRNKLLPIGVAGELCVGGEGLVRGYNNRPELTAEKF VDNPFVPGERMYRTGDLAKWLDPGTIEYVGRTEDDQVKIRGFRIELGEIEAQLQKV EGIRKTTVFARENASGEKQLCAYYEADCELPAAELKSVLKELPAYMIPAYLIQLE RLPLTTNG<u>K</u> VDRRSLPAPEESLQPGGG, underlined amino acids DGFFLGVVYK being conserved and forming a specific binding pocket for a leucine, isoleucine or valine residue.

IPC 8 full level
C12N 9/00 (2006.01)

CPC (source: EP US)
A61P 31/04 (2017.12 - EP); **C07K 7/62** (2013.01 - EP US); **C12N 9/93** (2013.01 - EP US); **C12N 15/52** (2013.01 - EP US); **C12P 21/02** (2013.01 - EP US)

Citation (search report)
See references of WO 2015111013A2

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 2015111013 A2 20150730; WO 2015111013 A3 20151223; CA 2944826 A1 20150730; EP 3099790 A2 20161207; FR 3016888 A1 20150731; FR 3016888 B1 20210122; JP 2017503528 A 20170202; JP 6637904 B2 20200129; US 10246697 B2 20190402; US 2016348088 A1 20161201

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