

Title (en)
ENZYMES WITH RUVC DOMAINS

Title (de)
ENZYME MIT RUVC-DOMÄNEN

Title (fr)
ENZYMES AYANT DES DOMAINES RUVC

Publication
EP 3924482 A4 20230405 (EN)

Application
EP 20756259 A 20200214

Priority
• US 201962805868 P 20190214
• US 201962805878 P 20190214
• US 201962805899 P 20190214
• US 201962874414 P 20190715
• US 2020018432 W 20200214

Abstract (en)
[origin: WO2020168291A1] The present disclosure provides for endonuclease enzymes having distinguishing domain features, as well as methods of using such enzymes or variants thereof.

IPC 8 full level
C12N 9/22 (2006.01); **C12N 15/10** (2006.01); **C12N 15/113** (2010.01); **C12N 15/90** (2006.01)

CPC (source: CN EP KR US)
C12N 9/22 (2013.01 - CN EP KR US); **C12N 15/10** (2013.01 - CN); **C12N 15/102** (2013.01 - EP KR); **C12N 15/11** (2013.01 - US);
C12N 15/113 (2013.01 - CN KR); **C12N 15/90** (2013.01 - CN EP); **C12N 15/907** (2013.01 - KR); **C12Y 301/21** (2013.01 - US);
C12N 2310/20 (2017.05 - EP KR US); **C12N 2310/531** (2013.01 - US)

Citation (search report)
• [XP] US 2019264232 A1 20190829 - HOU ZHENGLIN [US], et al & ANONYMOUS: "GSP:BGS65773", 17 October 2019 (2019-10-17), XP055968889, Retrieved from the Internet <URL:http://ibis.internal.epo.org/exam/dbfetch.jsp?id=GSP:BGS65773> [retrieved on 20221007] & ANONYMOUS: "GSP:BGS65777", 29 August 2019 (2019-08-29), XP055968896, Retrieved from the Internet <URL:http://ibis.internal.epo.org/exam/dbfetch.jsp?id=GSP:BGS65777> [retrieved on 20221007]
• [A] WO 2018035250 A1 20180222 - BROAD INST INC [US], et al
• [I] UNIPROTKB/TREMBL: "A0A1F0PN46 . A0A1F0PN46_9MICC HNH Cas9-type domain-containing protein . Rothia sp. HMSC076D04", 15 February 2017 (2017-02-15), XP055968835, Retrieved from the Internet <URL:https://rest.uniprot.org/uniprotkb/A0A1F0PN46.txt> [retrieved on 20221007]
• [I] UNIPROTKB/TREMBL: "A0A1F0KNW4 . A0A1F0KNW4_9MICC HNHc domain-containing protein . Rothia sp. HMSC066H02", 15 February 2017 (2017-02-15), XP055968869, Retrieved from the Internet <URL:https://rest.uniprot.org/uniprotkb/A0A1F0KNW4.txt> [retrieved on 20221007]
• [I] UNIPROTKB/TREMBL: "A0A1S1DAD0 . A0A1S1DAD0_9MICC HNH Cas9-type domain-containing protein . Rothia sp. HMSC065C03", 12 April 2017 (2017-04-12), XP055968878, Retrieved from the Internet <URL:https://rest.uniprot.org/uniprotkb/A0A1S1DAD0.txt> [retrieved on 20221007]
• [A] SERGEY SHMAKOV ET AL: "Discovery and Functional Characterization of Diverse Class 2 CRISPR-Cas Systems", MOLECULAR CELL, vol. 60, no. 3, 1 November 2015 (2015-11-01), AMSTERDAM, NL, pages 385 - 397, XP055267512, ISSN: 1097-2765, DOI: 10.1016/j.molcel.2015.10.008
• [A] SHMAKOV SERGEY ET AL: "Diversity and evolution of class 2 CRISPR-Cas systems", NATURE REVIEWS. MICROBIOLOGY, NATURE PUBLISHING GROUP, ENGLAND, vol. 15, no. 3, 1 March 2017 (2017-03-01), pages 169 - 182, XP002767857, ISSN: 1740-1534, DOI: 10.1038/NRMICRO.2016.184
• [A] KOONIN EUGENE V ET AL: "Diversity, classification and evolution of CRISPR-Cas systems", CURRENT OPINION IN MICROBIOLOGY, vol. 37, 9 June 2017 (2017-06-09), pages 67 - 78, XP085276922, ISSN: 1369-5274, DOI: 10.1016/J.MIB.2017.05.008
• See also references of WO 2020168291A1

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

DOCDB simple family (publication)
WO 2020168291 A1 20200820; AU 2020223370 A1 20211007; AU 2020223370 B2 20230420; AU 2023206079 A1 20230810; CA 3130135 A1 20200820; CA 3241703 A1 20200820; CN 113728098 A 20211130; CN 116515797 A 20230801; EP 3924482 A1 20211222; EP 3924482 A4 20230405; JP 2022520428 A 20220330; JP 2023179468 A 20231219; JP 7502537 B2 20240618; KR 102623312 B1 20240109; KR 20210139254 A 20211122; KR 20240007322 A 20240116; MX 2021009886 A 20211013; MX 2023006575 A 20230616; US 2024117330 A1 20240411

DOCDB simple family (application)
US 2020018432 W 20200214; AU 2020223370 A 20200214; AU 2023206079 A 20230717; CA 3130135 A 20200214; CA 3241703 A 20200214; CN 202080028787 A 20200214; CN 202310441977 A 20200214; EP 20756259 A 20200214; JP 2021547336 A 20200214; JP 2023146414 A 20230908; KR 20217028874 A 20200214; KR 20247000311 A 20200214; MX 2021009886 A 20200214; MX 2023006575 A 20210816; US 202318335481 A 20230615