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(54) Title: RESTRICTION ENDONUCLEASES AND THEIR USE

(57) Abstract: Provided is a restriction endonuclease with a recognition sequence 5'-TCGA-3', which restriction endonuclease is sensitive to the presence of a modified cytosine residue in the recognition sequence. Further provided are methods, uses and kits in-
volving the same.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2013/063971

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.c of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. (means)

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INTERNATIONAL SEARCH REPORT

International application No
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A. CLASSIFICATION OF SUBJECT MATTER
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According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EP0-Internal, BIOSIS, Sequence Search, EMBASE, MEDLINE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	J. VITKUTE ET AL: "Specificities of Eleven Different DNA Methyltransferases of Helicobacter pylori Strain 26695", JOURNAL OF BACTERIOLOGY, vol. 183, no. 2, 15 January 2001 (2001-01-15), pages 443-450, XP055091703, ISSN: 0021-9193, DOI: 10.1128/JB.183.2.443-450.2001 cited in the application	1-12,20, 28-32
A	Abstract; page 443; Tables 1 and 2 ----- -/--	13-19, 21-27



Further documents are listed in the continuation of Box C.



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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE EMBL [Online] 20 April 2012 (2012-04-20), "Helicobacter pylori Sh112 hypothetical protein", XP002717477, retrieved from EBI accession no. EM_CDS:AFI00542 Database accession no. AFI00542 the whole document -----	1-32
A	Barton E Slatko ET AL: "Clonit, sequencing and expression of the Taq I restriction-modification system", Nucleic Acids Research 1 January 1987 (1987-01-01), pages 9781-9796, XP055091722, Retrieved from the Internet: URL:http://www.ncbi.nlm.nih.gov/pmc/articles/PMC306531/pdf/nar00267-0165.pdf [retrieved on 2013-12-05] abstract; pages 9781, 9782 and 9789; Figures 1 and 3 -----	1-32
A	STREECK ET AL: "Single-strand and double-strand cleavage at half-modified and fully modified recognition sites for the restriction nucleases Sau3A and TaqI", GENE, vol. 12, no. 3-4, 1 December 1980 (1980-12-01), pages 267-275, XP023541944, ELSEVIER, AMSTERDAM, NL ISSN: 0378-1119, DOI: 10.1016/0378-1119(80)90109-2 [retrieved on 1980-12-01] abstract; pages 267-269, 273 -----	1-32