

Title (en)

A METHOD FOR DETERMINING THE METHYLATION RATE OF A NUCLEIC ACID

Title (de)

VERFAHREN ZUR BESTIMMUNG DER METHYLIERUNGSRATE EINER NUKLEINSÄURE

Title (fr)

PROCÉDÉ SERVANT À DÉTERMINER LE TAUX DE MÉTHYLATION D'UN ACIDE NUCLÉIQUE

Publication

**EP 2044214 A2 20090408 (EN)**

Application

**EP 07785943 A 20070709**

Priority

- EP 2007006064 W 20070709
- EP 06090125 A 20060718
- EP 06120694 A 20060914
- EP 07109855 A 20070608
- EP 07785943 A 20070709

Abstract (en)

[origin: WO2008009365A2] The invention relates to a method for quantitatively determining the methylation rate of a nucleic acid through sequencing. According to the invention, the method comprises at least the following steps: a) treating the nucleic acid with a chemical reagent or an enzyme containing solution, whereby the base pairing behavior of methylated cytosine bases and/or unmethylated cytosine bases of the nucleic acid are altered such that methylated cytosine bases become distinguishable from unmethylated cytosine bases, and b) introducing into the nucleic acid at least one base for generating a sequencing signal to be used as a reference signal for normalization, and c) sequencing the nucleic acid, whereby a signal from each cytosine base of the nucleic acid, or a signal from each guanine base of the nucleic acid and a reference signal from the at least one introduced base is obtained, and d) normalizing the signal obtained from each cytosine base of the nucleic acid, or the signal obtained from each guanine base of the nucleic acid to the reference signal from the at least one introduced base.

IPC 8 full level

**C12Q 1/68** (2006.01)

CPC (source: EP)

**C12Q 1/6827** (2013.01); **C12Q 1/6869** (2013.01)

Citation (search report)

See references of WO 2008009365A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

**WO 2008009365 A2 20080124; WO 2008009365 A3 20080417; EP 2044214 A2 20090408**

DOCDB simple family (application)

**EP 2007006064 W 20070709; EP 07785943 A 20070709**