



(12) **CORRECTED EUROPEAN PATENT APPLICATION**

published in accordance with Art. 158(3) EPC

Note: Bibliography reflects the latest situation

(15) Correction information:

Corrected version no 1 (W1 A1)
INID code(s) 72

(48) Corrigendum issued on:

04.10.2006 Bulletin 2006/40

(43) Date of publication:

07.06.2006 Bulletin 2006/23

(21) Application number: **04772464.6**

(22) Date of filing: **31.08.2004**

(51) Int Cl.:

C12N 9/04 (2006.01)	C12N 15/53 (2006.01)
C12N 5/10 (2006.01)	C12N 1/15 (2006.01)
C12N 1/19 (2006.01)	C12N 1/21 (2006.01)
C12Q 1/32 (2006.01)	C12M 1/40 (2006.01)
G01N 33/66 (2006.01)	

(86) International application number:

PCT/JP2004/012508

(87) International publication number:

WO 2005/026340 (24.03.2005 Gazette 2005/12)

(84) Designated Contracting States:

DE FR GB IT

(30) Priority: **08.09.2003 JP 2003315797**

08.09.2003 JP 2003315799

04.03.2004 JP 2004060283

04.03.2004 JP 2004060282

21.05.2004 JP 2004151905

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(54) **PYRROLOQUINOLINE QUINONE (PQQ)-DEPENDENT GLUCOSE DEHYDROGENASE MODIFICATION HAVING EXCELLENT SUBSTRATE SPECIFICITY**

(57) PQQGDH having an improved substrate specificity or having an improved specific activity in an assay system using ferricyanide ion as a mediator is provided. Modified PQQGDH having the enhanced substrate specificity by introducing an amino acid mutation in a particular region of PQQGDH, and a method of enhancing the specific activity compared with a wild type in the assay system using the ferricyanide ion as the mediator by deleting, substituting, or adding one or more amino acids in an amino acid sequence of the wild type pyrroloquinoline quinone dependent glucose dehydrogenase.

