



(11) **EP 2 316 928 A8**

(12) **CORRECTED EUROPEAN PATENT APPLICATION**

(15) Correction information:
Corrected version no 1 (W1 A1)
Corrections, see
Bibliography INID code(s) 71

(51) Int Cl.:
C12N 9/16 (2006.01) C12N 15/82 (2006.01)

(48) Corrigendum issued on:
27.07.2011 Bulletin 2011/30

(43) Date of publication:
04.05.2011 Bulletin 2011/18

(21) Application number: **09013639.1**

(22) Date of filing: **29.10.2009**

(84) Designated Contracting States:
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 SE SI SK SM TR
Designated Extension States:
AL BA RS

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(54) **Improvement of photosynthesis rate**

(57) The invention relates to methods of increasing the photosynthesis rate of a plant cell and/or the production of biomass in a plant, as well as to plant cells and plants with increased photosynthesis rate/production of biomass. The present invention also relates to a phosphatase of the light-harvesting complex of photosystem II, to nucleic acids coding for such phosphatase, and to

mutants of such nucleic acids. Moreover, the present invention relates to plant cells and plants, wherein the activity of said phosphatase is inhibited; in particular the present invention relates to plant cells and plants comprising the mutant nucleic acids

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