

Title (en)

METHODS AND COMPOSITIONS FOR IMPROVED ENZYME ACTIVITY IN TRANSGENIC PLANTS

Title (de)

VERFAHREN UND ZUSAMMENSETZUNGEN FÜR VERBESSERTE ENZYMAKTIVITÄT BEI TRANSGENEN PFLANZEN

Title (fr)

PROCEDES ET COMPOSITIONS POUR UNE ACTIVITE ENZYMATIQUE AMELIOREE DANS DES PLANTES TRANSGENIQUES

Publication

EP 2117293 A4 20100804 (EN)

Application

EP 07813164 A 20070720

Priority

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- US 89197707 P 20070228

Abstract (en)

[origin: WO2008105905A2] Compositions and methods for increasing enzyme activity across a broad physiological spectrum in plants, plant cells, tissues and seeds are provided. Compositions include plants or plant parts comprising two or more polynucleotides encoding polypeptides that are active across a broader physiological spectrum than when either polynucleotide is expressed alone. Vectors comprising these polynucleotide molecules as well as host cells comprising the vectors are further provided. Compositions also comprise transformed bacteria, plants, plant cells, tissues, and seeds. In addition, methods are provided for producing the plants, plant cells, tissues and seeds of the invention. Methods for increasing plant yield and methods for conferring resistance to an herbicide in a plant are further provided.

IPC 8 full level

C12N 15/82 (2006.01); **A01H 1/00** (2006.01); **A01H 5/00** (2006.01)

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Citation (search report)

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- [E] WO 2007103768 A2 20070913 - ATHENIX CORP, et al
- [A] US 5633435 A 19970527 - BARRY GERARD F [US], et al
- [X] HECK G R ET AL: "Development and characterization of a CP4 EPSPS-based, glyphosate-tolerant corn event", THE PLANT GENOME, CROP SCIENCE SOCIETY OF AMERICA, MADISON, WI, US, vol. 45, no. 1, 1 January 2005 (2005-01-01), pages 329 - 339, XP002401778, ISSN: 0011-183X
- See references of WO 2008105905A2

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