

Title (en)
NUCLEIC ACIDS THAT CODE FOR A NUCLEOBASE TRANSPORTER

Title (de)
NUKLEINSÄUREN, DIE NUKLEOBASENTRANSPORTER KODIEREN

Title (fr)
ACIDES NUCLEIQUES QUI CODENT POUR UN TRANSPORTEUR DE NUCLEOBASES

Publication
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Application
EP 00907590 A 20000221

Priority
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• EP 0001397 W 20000221

Abstract (en)
[origin: DE19907209A1] Nucleic acid encoding a plant nucleobase transporter (I), is new. (I) is produced by complementation of a nucleobase transport (NBT)-defective host cell with a plant gene bank by selection of NBT-positive cells, encodes a protein of 356 amino acids (defined and given in the specification). Defined sequences of 1145 (N1), 1293 (N2) and 1194 (N3) nucleotides (given in the specification) are excluded. Independent claims are also included for the following: (1) fragments (Ia) of (I) that, in antisense orientation to a promoter, inhibit expression of NBT in a host cell; (2) a construct of (I) and/or (Ia) under control of expression regulating elements; (3) host cells containing \- 1 (I), N1, N3 or the construct of (2); (4) transgenic plants, or their parts or seeds, that contain the nucleic acid specified in (3); (5) a protein (IIa) produced by expressing (I), or sequences N1 or N3, in a host cell; (6) an antibody (Ab) that reacts with (IIa); (7) production of a transgenic plant by incorporating (I), (Ia) or sequence N1 or N3 into a plant cell, then regeneration; and (8) a method for modulating NBT in a plant (or its parts, cells or seeds) by incorporating the nucleic acid specified in (3).

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