

Title (en)  
POLYNUCLEOTIDE SEQUENCES AND THEIR USE IN A METHOD OF PRODUCING PLANTS WITH AN INCREASED NUMBER OF STOMATA

Title (de)  
POLYNUKLEOTIDSEUENZEN UND IHRE VERWENDUNG IN EINER METHODE ZUR HERSTELLUNG VON PFLANZEN MIT ERHÖHTER ANZAHL VON SPALTÖFFNUNGEN

Title (fr)  
SEQUENCES DE POLYNUCLEOTIDES ET LEUR UTILISATION DANS UNE METHODE DE PRODUCTION DE PLANTES A NOMBRE ACCRU DE STOMATES

Publication  
**EP 1080196 A1 20010307 (EN)**

Application  
**EP 99918107 A 19990419**

Priority  
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• GB 9808304 A 19980420

Abstract (en)  
[origin: WO9954471A1] A method of producing plants with an increased number of stomata relative to control plants comprises the steps of: (i) inhibiting in plant material the production of fatty acids which stimulate the synthesis of the 14-3-3 class of transcription factors, or otherwise preventing the fatty acids from stimulating the synthesis of the said factors; (ii) selecting the thus inhibited material; and (iii) regenerating the thus selected material into plants. The inhibition may be achieved by sense co-suppression or anti-sense inhibition of an endogenous gene comprising a sequence which is complementary to one which when incubated at a temperature of between 60 and 65 DEG C in 0.3 strength citrate buffered saline containing 0.1 % SDS followed by rinsing at the same temperature with 0.3 strength citrate buffered saline containing 0.1 % SDS still hybridises with the sequence depicted in SEQ ID No.1. Preferred sequences for use in this method are depicted as SEQ ID No.1 and 2.

IPC 1-7  
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IPC 8 full level  
**A01H 5/00** (2006.01); **A01H 5/02** (2006.01); **C07K 14/415** (2006.01); **C12N 5/10** (2006.01); **C12N 9/10** (2006.01); **C12N 15/09** (2006.01); **C12N 15/29** (2006.01); **C12N 15/82** (2006.01)

CPC (source: EP KR)  
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