

Title (en)  
METHOD FOR PRODUCING MULTIPLE UNSATURATED FATTY ACIDS IN PLANTS

Title (de)  
VERFAHREN ZUR HERSTELLUNG MEHRFACH UNGESÄTTIGTER FETTSÄUREN IN PFLANZEN

Title (fr)  
PROCEDE POUR PRODUIRE DES ACIDES GRAS POLYINSATURES DANS DES PLANTES

Publication  
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Application  
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Abstract (en)  
[origin: WO03093482A2] The invention relates to a method for producing fatty acid esters which contain unsaturated fatty acids with at least three double-bonds, and free unsaturated fatty acids having a content of at least 1 wt.-%, in relation to the total amount of fatty acids contained in plants, by expression of at least one nucleic acid sequence which codes for a polypeptide having D-6-desaturase activity, and at least one nucleic acid sequence which codes for a polypeptide having D-6-elongase activity. Advantageously, said nucleic acid sequences can be expressed, optionally, together with a third nucleic acid sequence in the transgenic plant, which codes for a polypeptide having D-5-desaturase activity. The invention also relates to the use of defined nucleic acid sequences which code for polypeptides having a D-6-desaturase activity, D-6-elongase activity or D-5-desaturase activity, selected from a group of nucleic acid sequences, or to the use of nucleic acid structures containing the above-mentioned nucleic acid sequences.

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Citation (examination)  
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