

Title (en)

METHOD FOR INCREASING THE CONTENT OF FATTY ACIDS IN PLANTS AND MICRO-ORGANISMS

Title (de)

VERFAHREN ZUR ERHÖHUNG DES GEHALTS AN FETTSÄUREN IN PFLANZEN UND MIKROORGANISMEN

Title (fr)

PROCEDE POUR AUGMENTER LA TENEUR EN ACIDES GRAS DES PLANTES ET DES MICRO-ORGANISMES

Publication

EP 1246928 A2 20021009 (DE)

Application

EP 01909608 A 20010111

Priority

- DE 10000978 A 20000112
- EP 0100289 W 20010111

Abstract (en)

[origin: WO0151647A2] The invention relates to DNA sequences which code for a protein having the enzymatic activity of a beta -ketoacyl-ACP synthase (KAS) of the enzyme complex of the fatty acid synthase (FAS). The invention also relates to transgenic plants and micro-organisms which contain nucleic acid sequences that code for proteins having the activity of a beta -ketoacyl-ACP(<i>acyl carrier protein</i>) synthase (KAS) of the enzyme complex of the fatty acid synthase (FAS). The invention further relates to a method for influencing the fatty acid pattern and/or for increasing the fatty acid content, especially the content of short and middle chain fatty acids, in plants, especially in seed tissues and other tissue that synthesise and/or store triacylglycerines, as well as in micro-organisms, especially bacteria and algae. The inventive method comprises the expression of proteins having the activity of a KAS of the enzyme complex of the fatty acid synthase in transgenic plants or micro-organisms.

IPC 1-7

C12N 15/82; C12N 15/54; C12N 5/10; A01H 5/00; C12N 9/10

IPC 8 full level

C12N 1/13 (2006.01); C12N 1/21 (2006.01); C12N 9/10 (2006.01); C12N 15/54 (2006.01); C12N 15/82 (2006.01)

CPC (source: EP US)

C12N 9/1029 (2013.01 - EP US); C12N 15/8247 (2013.01 - EP US)

Citation (search report)

See references of WO 0151647A2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0151647 A2 20010719; WO 0151647 A3 20020411; AU 3728801 A 20010724; AU 784223 B2 20060223; CA 2399626 A1 20010719;
DE 10000978 A1 20010726; EP 1246928 A2 20021009; US 2003145350 A1 20030731

DOCDB simple family (application)

EP 0100289 W 20010111; AU 3728801 A 20010111; CA 2399626 A 20010111; DE 10000978 A 20000112; EP 01909608 A 20010111;
US 19491902 A 20020712