

Title (en)

FOUR-GENE PATHWAY FOR WAX ESTER SYNTHESIS

Title (de)

VIER-GENE-SIGNALWEG FÜR WACHSESTERSYNTHESE

Title (fr)

voie à quatre gènes pour la synthèse d'ester cireux

Publication

**EP 2820029 A1 20150107 (EN)**

Application

**EP 12869795 A 20120229**

Priority

US 2012027091 W 20120229

Abstract (en)

[origin: WO2013130062A1] The invention relates to methods for producing a wax ester in recombinant host cells engineered to express a thioesterase, an acyl-CoA synthetase, an alcohol-forming fatty acyl reductase, and a wax ester synthase. The methods of the invention may take place in photosynthetic microorganisms, and particularly in cyanobacteria. Isolated nucleotide molecules and vectors expressing the thioesterase, acyl-CoA synthetase, alcohol-forming fatty acyl reductase, and wax ester synthase, recombinant host cells expressing the thioesterase, acyl-CoA synthetase, alcohol-forming fatty acyl reductase, and wax ester synthase, and systems for producing a wax ester via a pathway using these four enzymes, are also provided.

IPC 8 full level

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