

Title (en)  
THIOESTERASES AND CELLS FOR PRODUCTION OF TAILORED OILS

Title (de)  
THIOESTERASEN UND ZELLEN ZUR HERSTELLUNG VON MASSGESCHNEIDERTEN ÖLEN

Title (fr)  
THIOESTÉRASES ET CELLULES POUR LA PRODUCTION D'HUILES À FAÇON

Publication  
**EP 2971024 A4 20161116 (EN)**

Application  
**EP 14769502 A 20140313**

Priority  
• US 201361791861 P 20130315  
• US 201313837996 A 20130315  
• US 201361917217 P 20131217  
• US 2014026644 W 20140313

Abstract (en)  
[origin: WO2014151904A1] The invention features plant acyl-ACP thioesterase genes of the FatB class and proteins encoded by these genes. The genes are useful for constructing recombinant host cells having altered fatty acid profiles. Oleaginous microalga host cells with the new genes or previously identified FatB genes are disclosed. The microalgae cells produce triglycerides with useful fatty acid profiles.

IPC 8 full level  
**C12N 5/00** (2006.01); **C12N 5/02** (2006.01); **C12N 9/00** (2006.01); **C12P 7/64** (2006.01)

CPC (source: EP)  
**C12N 9/16** (2013.01); **C12N 15/8247** (2013.01); **C12P 7/6409** (2013.01); **C12Y 301/02014** (2013.01); **Y02E 50/10** (2013.01)

Citation (search report)  
• [I] WO 9220236 A1 19921126 - CALGENE INC [US]  
• [I] CN 102586350 A 20120718 - UNIV BEIJING CHEMICAL  
• [I] YUAN L ET AL: "MODIFICATION OF THE SUBSTRATE SPECIFICITY OF AN ACYL-ACYL CARRIER PROTEIN THIOESTERASE BY PROTEIN ENGINEERING", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES, NATIONAL ACADEMY OF SCIENCES, US, vol. 92, 1 November 1995 (1995-11-01), pages 10639 - 10643, XP002014019, ISSN: 0027-8424, DOI: 10.1073/PNAS.92.23.10639  
• See references of WO 2014151904A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2014151904 A1 20140925**; AU 2014236763 A1 20151001; AU 2014236763 B2 20180823; AU 2018267601 A1 20181206; BR 112015023192 A2 20171121; BR 112015023192 A8 20180102; CA 2904395 A1 20140925; CN 105143458 A 20151209; EP 2971024 A1 20160120; EP 2971024 A4 20161116; JP 2016518112 A 20160623; KR 20150128770 A 20151118; MX 2015011507 A 20160407

DOCDB simple family (application)  
**US 2014026644 W 20140313**; AU 2014236763 A 20140313; AU 2018267601 A 20181121; BR 112015023192 A 20140313; CA 2904395 A 20140313; CN 201480020002 A 20140313; EP 14769502 A 20140313; JP 2016502205 A 20140313; KR 20157027058 A 20140313; MX 2015011507 A 20140313