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(54) Title: GENETICALLY MODIFIED ORGANISMS FOR THE PRODUCTION OF LIPIDS

(57) Abstract: The invention provides an isolated genetically modified non-mammalian organism, wherein the activity of acyl-CoA:sterol acyltransferase/sterol O-acyltransferase (EC 2.3.1.26) and/or diacylglycerol acyltransferase/diacylglycerol O-acyltransferase (EC 2.3.1.20) and/or lecithin cholesterol acyl transferase/phospholipid: diacylglycerol acyltransferase (EC 2.3.1.158) and/or acyl CoA-wax alcohol acyltransferase (EC 2.3.1.75) is reduced or abolished in comparison with a corresponding wildtype organism, methods of use of such an organism, shuttle vehicles for making such an organism and methods for producing such an organism.



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