

Title (en)

BIOSYNTHESIS OF MEDIUM CHAIN LENGTH POLYHYDROXYALKANOATES

Title (de)

BIOSYNTHESE MITTELKETTIGER POLYHYDROXYALKANOATEN

Title (fr)

BIOSYNTHESE DE POLYHYDROXYALKANOATES A LONGUEUR DE CHAINE MOYENNE

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Application

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Abstract (en)

[origin: WO9935278A1] Nucleic acids, proteins, and methods for the biosynthesis of polyhydroxyalkanoate polymer materials are disclosed. In a preferred embodiment, expression of a polyhydroxyalkanoate synthase protein with a peroxisome targeting peptide results in the biosynthesis of medium chain length polyhydroxyalkanoates. In an alternative embodiment, exogenous addition of fatty acids to a plant or cell containing a peroxisome targeted polyhydroxyalkanoate synthase protein leads to the biosynthesis of novel polymeric materials.

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