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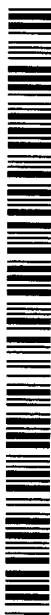
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(75) Inventors/Applicants (*for US only*): **JAWORSKI, Jan,**

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: FATTY ACID ELONGASE 3-KETOACYL CoA SYNTHASE POLYPEPTIDES

(57) Abstract: Elongase KCS polypeptides with altered substrate specificity and/or catalytic activity are disclosed. Such elongase KCS polypeptides are effective for producing very long chain fatty acids (VLCFA) fatty acids. Also disclosed are nucleic acids encoding elongase KCS polypeptides, and yeast and plants expressing these polypeptides.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C12N15/54 C12N15/62 C12N15/82 C12N9/10 C12N5/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EMBL, EP0-Internal, WPI Data, PAJ, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 95 15387 A (LARDIZABAL KATHRYN DENNIS ;LASSNER MICHAEL W (US); METZ JAMES GEOR) 8 June 1995 (1995-06-08) Note: 100.0% aa seq identity of Brassica Reston (HEAR) CE20 KCS aa sequence with SEQ ID NO:34 in 474 aa overlap (1-474:1-474) the whole document example 13 figure 7 --- -/--	6



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

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A	DOMERGUE F ET AL.: "Seed acyl-CoA elongases: the other system of fatty acid synthesis" OCL-OLEAGINEUX CORPS GRAS LIPIDES, vol. 6, no. 1, January 1999 (1999-01), pages 101-106, XP001064063 the whole document ---	
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Information on patent family members

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