

Title (en)
DELTA 6 FATTY ACID DESATURASE

Title (de)
DELTA-6 FETTSÄURE DESATURASE

Title (fr)
DESATURASE D'ACIDE GRAS DELTA 6

Publication
EP 1121150 A4 20030604 (EN)

Application
EP 99953068 A 19991005

Priority
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• US 10376098 P 19981009

Abstract (en)
[origin: WO0021557A1] Novel human DNA sequences that encode the gene CYB5RP, a delta 6 fatty acid desaturase, are provided. Provided are genomic CYB5RP DNA as well as cDNA that encodes the CYB5RP protein. Also provided is CYB5RP protein encoded by the novel DNA sequences. Methods of expressing CYB5RP protein in recombinant systems are provided. Also provided are CYB5RP methods that identify activators and inhibitors of CYB5RP protein.
[origin: WO0021557A1] Novel human DNA sequences that encode the gene CYB5RP, a delta 6 fatty acid desaturase, are provided. Provided are genomic CYB5RP DNA as well as cDNA that encodes the CYB5RP protein. Also provided is CYB5RP protein encoded by the novel DNA sequences. Methods of expressing CYB5RP protein in recombinant systems are provided. Also provided are CYB5RP methods that identify activators and inhibitors of CYB5RP protein.

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A61K 39/395; C12P 7/62; C12N 9/02; C12N 15/00; C07H 19/00

IPC 8 full level
G01N 33/50 (2006.01); **A61K 38/55** (2006.01); **A61K 39/395** (2006.01); **A61K 45/00** (2006.01); **A61K 48/00** (2006.01); **A61P 3/00** (2006.01); **A61P 3/10** (2006.01); **A61P 9/00** (2006.01); **A61P 9/10** (2006.01); **A61P 17/00** (2006.01); **A61P 27/02** (2006.01); **A61P 29/00** (2006.01); **A61P 31/12** (2006.01); **A61P 37/06** (2006.01); **C07K 16/40** (2006.01); **C12N 1/15** (2006.01); **C12N 1/19** (2006.01); **C12N 1/21** (2006.01); **C12N 5/10** (2006.01); **C12N 9/02** (2006.01); **C12N 9/88** (2006.01); **C12N 15/09** (2006.01); **C12Q 1/02** (2006.01); **C12Q 1/68** (2006.01); **G01N 33/15** (2006.01); **G01N 33/68** (2006.01); **A61K 38/00** (2006.01)

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Citation (search report)
• [Y] WO 9621022 A2 19960711 - RHONE POULENC AGROCHIMIE [FR]
• [Y] DATABASE EMBL [online] XP002237473, retrieved from EBI Database accession no. AC004228
• [PX] DATABASE EMBL [online] XP002237474, retrieved from EBI Database accession no. AF134404
• [Y] "AC O60426", TREMBL PROTEIN SEQUENCE, XP002111714
• [Y] SAYANOVA ET AL: "Expression of a borage desaturase cDNA containing an N-terminal cytochrome b5 domain results in the accumulation of high levels of delta-6-desaturated fatty acids in transgenic tobacco", PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE. WASHINGTON, US, vol. 94, April 1997 (1997-04-01), pages 4211 - 4216, XP002099447, ISSN: 0027-8424
• [Y] GIRKE T ET AL: "IDENTIFICATION OF A NOVEL DELTA6-ACYL-GROUP DESATURASE BY TARGETED GENE DISRUPTION IN PHYSCOMITRELLA PATENS", PLANT JOURNAL, BLACKWELL SCIENTIFIC PUBLICATIONS, OXFORD, GB, vol. 15, no. 1, 1998, pages 39 - 48, XP000881712, ISSN: 0960-7412
• [Y] NAPIER ET AL: "Identification of a Caenorhabditis elegans delta6-fatty-acid-desaturase by heterologous expression in Saccharomyces cerevisiae", BIOCHEMICAL JOURNAL, PORTLAND PRESS, LONDON, GB, vol. 330, no. 2, March 1998 (1998-03-01), pages 611 - 614, XP002099453, ISSN: 0264-6021
• [PY] CHO H P ET AL: "Cloning, expression, and nutritional regulation of the mammalian Delta-6 desaturase", JOURNAL OF BIOLOGICAL CHEMISTRY, AMERICAN SOCIETY OF BIOLOGICAL CHEMISTS, BALTIMORE, MD, US, vol. 274, no. 1, 1999, pages 471 - 477, XP002111713, ISSN: 0021-9258
• See references of WO 0021557A1

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