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(54) Title: ISOLATED HUMAN ENZYME PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN ENZYME PROTEINS, AND USES THEREOF

(57) Abstract: The present invention provides amino acid sequences of peptides that are encoded by genes within the human genome, the enzyme peptides of the present invention. The present invention specifically provides isolated peptide and nucleic acid molecules, methods of identifying orthologs and paralogs of the enzyme peptides, and methods of identifying modulators of the enzyme peptides.



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INTERNATIONAL SEARCH REPORT

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PCT/US02/06696

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C07H 21/02, 21/04; C12N 9/00, 15/00, 15/11, 15/85, 15/86; C12Q 1/68; A01K 67/00

US CL : 536/23.1; 435/6, 68.1, 69.1, 183, 252.3, 325; 800/8

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)

U.S. : 536/23.1; 435/6, 68.1, 69.1, 183, 252.3, 325; 800/8

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 practicable, search terms used)
Medline, Biosis, CAPlus, Embase, US Patents, Derwent**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	BROWN, R.M. et al. Transfection screening for primary defects in the pyruvate dehydrogenase E1-alpha subunit gene. Hum. Mol. Gen. 1997, Vol. 6, No. 8, pages 1361-1367, see entire document.	1-5, 8-15, 19-23 ----- 6, 16
X --- Y	DE MEIRLEIR, L. et al. Isolation of a full-length complementary DNA coding for human E1-alpha subunit of the pyruvate dehydrogenase complex. J. Biol. Chem. 05 February 1988, Vol. 263, No. 4, pages 1991-1995, see entire document.	1-5, 8, 9 20-23 ----- 6, 16
Y	US 5,837,832 A (CHEE et al.) 17 November 1998 (17.11.1998), see entire document.	6
Y	US 5,283,173 A (FIELDS et al.) 01 February 1994 (01.02.1994), see entire document.	16
A,P	HOUEBINE, L. The methods to generate transgenic animals and to control transgene expression. J. Biotech. 2002, Vol. 98, pages 145-160.	7

☐ Further documents are listed in the continuation of Box C.☐ See patent family annex.

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