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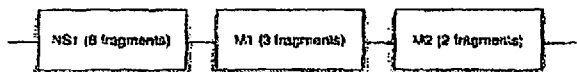
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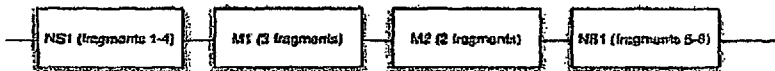
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[Continued on next page]

(54) Title: METHOD FOR PRODUCING VIRAL VACCINE AND THERAPEUTIC PEPTIDE ANTIGENS



PROTELIX-CME-001-10JUN2006
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(57) Abstract: A method of producing viral antigens for use in a vaccine or therapeutic composition against infection by a virus, and a composition produced thereby, are disclosed. The method is applicable to viruses having a plurality of subtypes whose protein sequences for at least one viral protein or polyprotein are known. Regions of a selected viral protein that (i) are known or predicted to bind to MHC proteins in host antigen-presenting cells, and (ii) have a moderate amino acid variability within the virus subtypes are systematically varied in amino acid sequence, and tested for enhanced binding to MHC proteins. The composition includes those peptides having the highest binding affinity for MHC proteins.

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC: C07K 5/00(2006.01);A61K 39/00(2006.01);C12N 15/00(2006.01)

USPC: 530/300;424/184.1;435/69.3
 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. : 530/300; 424/184.1; 435/69.3

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)
 EAST, MEDLINE, BIOSIS

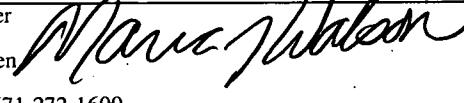
C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,037,135 (KUBO et al) 14 March 2000 (14.03.2000), claims 1-66	1-8
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Y		9-12
Y	US 6,984,504 B2 (HART et al) 10 January 2006 (10.01.2006) column 15, lines 52-67.	1-12
Y	BOESEN A. et al. Lassa Virus Peptides Predicted by Computational Analysis Induce Epitope-Specific Cytotoxic-T-Lymphocyte Response in HLA-A2.1 Transgenic Mice. Clinical and Diagnostic Laboratory Immunology, 2005, Vol. 12, p. 1223-1230.	1-12

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

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"A"	document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O"	document referring to an oral disclosure, use, exhibition or other means	
"P"	document published prior to the international filing date but later than the priority date claimed	"&" document member of the same patent family

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