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(54) Title: ANTIGENS TARGETED BY PATHOGENIC A14 T CELLS IN TYPE 1 DIABETES AND USES THEREOF

(57) Abstract: Provided are oligopeptide antigens to A14-like T cells, and mouse proteins comprising those antigens. The oligopeptide antigens comprise the amino acid sequence XX(I/D/F/L)ENY(I/L)(E/W/Y)(L/M) or VMLENYTHL. Additionally provided are methods for treating a mammal having or at risk for type 1 diabetes using these antigens, or compounds which reduce or eliminate expression of these antigens. Kits comprising these antigens, and methods for determining whether a mammal is at risk for or has type 1 diabetes are also provided.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/26315

A. CLASSIFICATION OF SUBJECT MATTER
 IPC: **A61K 31/7105(2006.01),31/711(2006.01),38/08(2006.01),38/16(2006.01),39/00(2006.01),48/00(2006.01);C07K 7/06(2006.01)**

 USPC: 424/93.21, 139.1, 185.1;435/29,366;514/2,15,44;530/300,328,350;536/23.1
 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. : 424/93.21, 139.1, 185.1; 435/29,366; 514/2, 15, 44; 530/300, 328, 350; 536/23.1

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)
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C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|---|-----------------------|
| A | US 2002/0132247 A1 (DELANEY ET AL) 19 September 2002 (19/09/02), see entire document, especially SEQ ID NOS:2 and 3. | 1-153 |
| A | US 2003/0190323 A1 (COHEN ET AL) 09 October 2003 (09/10/03), see entire document, especially the abstract. | 1-153 |
| A | LIEBERMAN et al. Identification of the beta cell antigen targeted by a prevalent population of pathogenic CD8+ T cells in autoimmune diabetes. Proceedings of the National Academy of Science USA. 08 July 2003, Volume 100, Number 14, pages 8384-8388, especially the abstract. | 1-153 |

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

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Continuation of B. FIELDS SEARCHED Item 3:
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