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(54) Title: METHODS AND COMPOSITIONS FOR MODIFYING APOLIPOPROTEIN B mRNA EDITING

(57) Abstract: Products and methods for modifying apolipoprotein B mRNA editing *in vivo*, reducing serum LDL levels, and treating or preventing an atherogenic disease or disorder are disclosed. Such methods involve the use of a protein including APOBEC-1 or fragments thereof which can edit mRNA encoding apolipoprotein B. The protein including APOBEC-1 can be taken up by cells in the form of a delivery vehicle, such as a liposome or niosome, or directly as a chimeric protein which includes a first polypeptide that includes a protein transduction domain and a second polypeptide that includes APOBEC-1 or a fragment thereof which can edit mRNA encoding apolipoprotein B.

INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C12Q 1/68; C07H 21/04 US CL : 435/6; 536/23.2, 24.31 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. : 435/6; 536/23.2, 24.31 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) US PATENTS, MEDLINE, EMBASE, CA SEARCH		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,087,108 A (BANDMAN et al.) 11 June 2000, col. 1, lines 14-24; col. 1, line 57 to col. 2, line 10.	1-88
<input type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.		
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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		
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