Abstract: Filovirus subunit protein immunogens are produced using a recombinant expression system and combined with one or more adjuvants in immunogenic formulations. The subunit proteins include GP95, GP-FL, VP40, VP24, and NP derived from Ebola Virus and Marburg Virus. Adjuvants include saponins, emulsions, alum, and dipeptidyl peptide inhibitors. The disclosed immunogenic formulations are effective in inducing strong antibody responses directed against individual Filovirus proteins and intact Filovirus particles as well as stimulating cell-mediated immune responses to the Filoviruses.
INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC: A61K 39/12 (2006.01); C12P 21/04 (2006.01)

USPC: 424/218.1; 435/69.7

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.: 424/218.1; 435/69.7

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)

USPTOFUL, WPIDS, MEDLINE, GENBANK

C. DOCUMENTS CONSIDERED TO BE RELEVANT

<table>
<thead>
<tr>
<th>Category</th>
<th>Citation of document, with indication, where appropriate, of the relevant passages</th>
<th>Relevant to claim No.</th>
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<tr>
<td>Y</td>
<td>VOLCHKOV, V. E. Zaire ebolavirus complete genome sequence submission. NCBI GenBank submission NC 002549. 20 August 1998.</td>
<td>1-49</td>
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Further documents are listed in the continuation of Box C. See patent family annex.

Date of the actual completion of the international search

08 June 2008 (08.06.2008)

Date of mailing of the international search report

05 AUG 2008

Name and mailing address of the ISA/US

Mail Stop PCT, Attn: ISA/US
Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (571) 272-3201

Form PCT/ISA/210 (second sheet) (April 2007)

Authorized officer
J.S. Parkin
Telephone No. (571) 272-0500
<table>
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