



United States Patent [19]

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- [54] **MOLECULAR CLONES OF HIV-1 VIRAL STRAINS MN-ST1 AND BA-L AND USES THEREOF**
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Related U.S. Application Data

- [63] Continuation of Ser. No. 599,491, Oct. 17, 1990, abandoned.
- [51] Int. Cl.⁶ **C12N 7/00**
- [52] U.S. Cl. **435/235.1; 435/239; 435/6; 435/69.1; 435/69.3; 536/23.72; 530/324**
- [58] Field of Search **435/69.1, 69.3, 235.1, 435/239, 6; 530/350, 395, 403, 324; 536/23.72; 935/1**

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[57] ABSTRACT

The present invention relates to the HIV-1 strains MN-ST1 and BA-L which are typical United States HIV-1 isotypes. The present invention relates to DNA segments encoding the envelope protein of MN-ST1 or BA-L, to DNA constructs containing such DNA segments and to host cells transformed with such constructs. The viral isolates and envelope proteins of the present invention are of value for use in vaccines and bioassays for the detection of HIV-1 infection in biological samples, such as blood bank samples.

10 Claims, 54 Drawing Sheets

