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United States Patent [19][11] **Patent Number:** **5,578,475****Jessee**[45] **Date of Patent:** **Nov. 26, 1996**[54] **COMPOSITION AND METHODS FOR TRANSFECTING EUKARYOTIC CELLS**[75] Inventor: **Joel A. Jessee**, Mt. Airy, Md.[73] Assignee: **Life Technologies, Inc.**, Gaithersburg, Md.[21] Appl. No.: **274,397**[22] Filed: **Jul. 12, 1994****Related U.S. Application Data**

[63] Continuation-in-part of Ser. No. 90,290, Jul. 12, 1993, abandoned.

[51] **Int. Cl.**⁶ **C12N 15/64**; C12N 7/00; C12N 7/06[52] **U.S. Cl.** **435/172.3**; 435/235.1; 435/236[58] **Field of Search** 435/172.3, 240.2, 435/172.1, 235.1, 236; 424/184.1, 209.1, 211.1, 218.1[56] **References Cited****U.S. PATENT DOCUMENTS**

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[57]

ABSTRACT

The present invention provides compositions and methods for transfecting eukaryotic cells which comprises a nucleic acid, a cationic lipid capable of forming a complex with said nucleic acid, and a viral agent which is an active or inactive enveloped virus or a component of an enveloped virus.

36 Claims, No Drawings