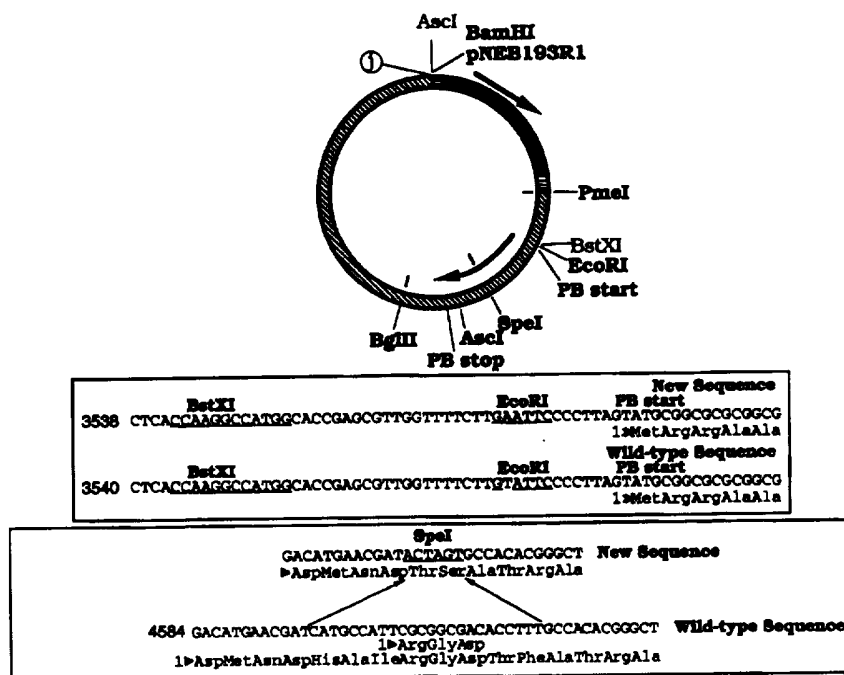




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(71) Applicant: GENVEC, INC. [US/US]; 12111 Parklawn Drive, Rockville, MD 20852 (US).			
(72) Inventors: WICKHAM, Thomas, J.; 8608 Delcris Drive, Gaithersburg, MD 20879 (US). KOVESDI, Imre; 12505 Village Square Terrace #202, Rockville, MD 20852 (US). BROUGH, Douglas, E.; 3900 Shallowbrook Lane, Olney, MD 20832 (US). McVEY, Duncan, L.; 7727 Ironforge Court, Derwood, MD 20855 (US). BRUDER, Joseph, T.; 6644 Beach Drive, New Market, MD 21774 (US).			
(74) Agents: KILYK, John, Jr. et al.; Leydig, Voit & Mayer, Ltd., Suite 4900, Two Prudential Plaza, 180 North Stetson, Chicago, IL 60601-6780 (US).		(88) Date of publication of the international search report: 9 May 1996 (09.05.96)	

(54) Title: RECOMBINANT ADENOVIRUS COMPRISING A CHIMERIC PENTON BASE PROTEIN



(57) Abstract

A recombinant adenovirus comprising a chimeric penton base protein, which includes a nonpenton base sequence, and a therapeutic gene, a method of gene therapy involving the use of such adenovirus, and adenoviral transfer vectors for the generation of such recombinant adenovirus are provided.

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 95/09904

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C12N15/86 C12N15/87 C12N7/01 C12N15/12 C12N15/34
C12N15/62 A61K48/00

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)
IPC 6 C12N C07K A61K

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 practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO,A,94 17832 (SCRIPPS RESEARCH INST ;NEMEROW GLEN R (US); WICKHAM THOMAS J (US)) 18 August 1994 see the whole document ---	1-42
A	TRENDS IN CELL BIOLOGY 4 (2). 1994. 52-55. ISSN: 0962-8924, February 1994 NEMEROW G R ET AL 'Adenovirus entry into host cells: A role for alpha-v integrins.' see the whole document --- -/--	1-42

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

11 March 1996

Date of mailing of the international search report

15.03.96

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+ 31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+ 31-70) 340-3016

Authorized officer

Hornig, H

INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 95/09904

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	CELL, vol. 73, no. 2, 23 April 1993 CELL PRESS, CAMBRIDGE, MA, US; pages 309-319, T.J. WICKHAM ET AL. 'Integrins alphavbeta3 and alphavbeta5 promote Adenovirus internalization but not virus attachment' cited in the application see the whole document ---	1-42
A	J. BIOL. CHEM. (1991), 266(6), 3961-7 CODEN: JBCHA3; ISSN: 0021-9258, 25 February 1991 ALBIGES-RIZO, CORINNE ET AL 'Human adenovirus serotype 3 fiber protein. Comparison of native and recombinant proteins' see the whole document ---	1-42
A	VIROLOGY, vol. 185, no. 1, November 1991 ACADEMIC PRESS, INC., NEW YORK, US, pages 365-376, A. NOVELLI AND P.A. BOULANGER 'Deletion analysis of functional domains in Baculovirus-expressed Adenovirus type 2 fiber' see the whole document ---	1-42
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T	GENE THER. (1995), 2(10), 750-6 CODEN: GETHEC; ISSN: 0969-7128, December 1995 WICKHAM, T. J. ET AL 'Targeting of adenovirus penton base to new receptors through replacement of its RGD motif with other receptor-specific peptide motifs' see the whole document -----	1-42

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 95/ 09904

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
Remark: Although claims 36-42 are directed to a method of treatment of the human/animal body the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internal Application No

PCT, JS 95/09904

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
W0-A-9417832	18-08-94	AU-B- 6133394	29-08-94
