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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 96/17807

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C12N15/86 C12N5/10 C12N7/01

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

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.
X	<p>HUMAN GENE THERAPY, vol. 6, 1995, pages 1203-1213, XP000569741 Y. YANG ET AL.: "Inducible, high-level production of infectious murine leukemia retroviral vector particles pseudotyped with vesicular stomatitis virus G envelope protein" see the whole document, especially the abstract and introduction sections and Figures 1 and 3.</p>	1-31
A	<p style="text-align: center;">---</p> <p>WO 94 29440 A (THE REGENTS OF THE UNIVERSITY OF CALIFORNIA) 22 December 1994 see Examples 2, 3, 9, 11-14 and 24 and Claims.</p> <p style="text-align: center;">---</p> <p style="text-align: center;">-/--</p>	1-31

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
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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

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

13 May 1997

Date of mailing of the international search report

16.07.97

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 96/17807

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	METHODS CELL BIOL., vol. 43, 1994, pages 99-112, XP000570503 J.-K. YEE ET AL.: "Generation of high-titer pseudotyped retroviral vectors with very broad host range" see the whole document. ---	1-31
P,X	WO 96 04934 A (GENETIC THERAPY INC. ET AL.) 22 February 1996 see the whole document, especially Example 9 and Claims. ---	1-31
E	WO 96 35454 A (ST. JUDE CHILDREN'S RESEARCH HOSPITAL ET AL.) 14 November 1996 see the whole document. ---	1-31
P,X	PROC. NATL. ACAD. SCI. USA, vol. 93, 1996, pages 11400-11406, XP002030784 D.S. ORY ET AL.: "A stable human-derived packaging cell line for production of high titer retrovirus/vesicular stomatitis virus G pseudotypes" see the whole document. -----	1-31

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 96/ 17807

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:

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:

see continuation-sheet

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.:

1-31

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

International Application No. PCT/US 96/ 17807

FURTHER INFORMATION CONTINUED FROM PCT/ISA/210

(a) Claims 1-31: a stable, pseudotyped retrovirus packaging cell line capable of generating helper-free recombinant pseudotyped retroviruses, wherein the packaging cell line contains one or more non-retroviral expression constructs which direct expression of retroviral gagpol genes and a gene encoding a pseudotyped envelope, e.g. the vesicular stomatitis virus G (VSV-G) glycoprotein, under the control of an inducible operator system, and methods for making the cell line.

(b) Claims 32-45: a retroviral vector for producing a cDNA library for expression in mammalian cells, comprising two retroviral LTRs, a cloning site and a cytomegalovirus promoter, the cDNA expression library per se, a method for producing the library, optionally by using pseudotyped retroviruses, a method of producing pseudotyped retroviral particles using the library, and the pseudotyped retroviral particles per se, which may optionally be VSV-G retroviral pseudotypes.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 96/17807

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9429440 A	22-12-94	US 5512421 A AU 7052394 A CA 2164324 A EP 0702717 A JP 8511685 T	30-04-96 03-01-95 22-12-94 27-03-96 10-12-96
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WO 9604934 A	22-02-96	CA 2196208 A EP 0769968 A	22-02-96 02-05-97
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WO 9635454 A	14-11-96	NONE	
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