

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL SEARCH REPORT**

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P185941.WO.01	<b>FOR FURTHER ACTION</b>		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No. PCT/EP2018/073643	International filing date ( <i>day/month/year</i> ) 3 September 2018 (03-09-2018)	(Earliest) Priority Date ( <i>day/month/year</i> ) 1 September 2017 (01-09-2017)	
Applicant  THE PROVOST, FELLOWS AND SCHOLARS OF THE...			

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 6 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of:

- the international application in the language in which it was filed  
 a translation of the international application into \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))

b.  This international search report has been established taking into account the **rectification of an obvious mistake** authorized by or notified to this Authority under Rule 91 (Rule 43.6*bis*(a)).

c.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box No. II)

3.  **Unity of invention is lacking** (see Box No III)

4. With regard to the **title**,

- the text is approved as submitted by the applicant  
 the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

- the text is approved as submitted by the applicant  
 the text has been established, according to Rule 38.2, by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_  
 as suggested by the applicant  
 as selected by this Authority, because the applicant failed to suggest a figure  
 as selected by this Authority, because this figure better characterizes the invention
- b.  none of the figures is to be published with the abstract

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/EP2018/073643

## Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.c of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of a sequence listing:
  - a.  forming part of the international application as filed:
    - in the form of an Annex C/ST.25 text file.
    - on paper or in the form of an image file.
  - b.  furnished together with the international application under PCT Rule 13ter.1(a) for the purposes of international search only in the form of an Annex C/ST.25 text file.
  - c.  furnished subsequent to the international filing date for the purposes of international search only:
    - in the form of an Annex C/ST.25 text file (Rule 13ter.1(a)).
    - on paper or in the form of an image file (Rule 13ter.1(b) and Administrative Instructions, Section 713).
2.  In addition, in the case that more than one version or copy of a sequence listing has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that forming part of the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:

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A. CLASSIFICATION OF SUBJECT MATTER  
INV. C12N15/85 A61K48/00 C12N5/079  
ADD.  
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)  
C12N 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 practicable, search terms used)  
EPO-Internal, WPI Data, EMBL, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	ELDER G A ET AL: "Novel DNA binding proteins participate in the regulation of human neurofilament H gene expression", MOLECULAR BRAIN RESEARCH, ELSEVIER SCIENCE BV, AMSTERDAM, NL, vol. 15, no. 1-2, 1 September 1992 (1992-09-01), pages 85-98, XP024331773, ISSN: 0169-328X, DOI: 10.1016/0169-328X(92)90155-5 [retrieved on 1992-09-01] Whole document especially figure 1 -----	23,48, 50-52,54
Y	WO 2017/093566 A1 (UNIV PIERRE ET MARIE CURIE [FR]; INSERM (INSTITUT NAT DE LA SANTÉ ET) 8 June 2017 (2017-06-08) Whole document, especially the claims. ----- -/--	1-22, 38-57

Further documents are listed in the continuation of Box C.

See patent family 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 application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "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 <b>5 November 2018</b>	Date of mailing of the international search report <b>16/11/2018</b>
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016	Authorized officer <b>Kools, Patrick</b>

## INTERNATIONAL SEARCH REPORT

International application No  
PCT/EP2018/073643

C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>Chan Y Kim ET AL: "Gene expression profile of the adult human retinal ganglion cell layer", Molecular vision, 22 December 2006 (2006-12-22), pages 1640-8, XP055520855, United States Retrieved from the Internet: URL:<a href="http://www.molvis.org/molvis/v12/a188/v12a188-kim.pdf">http://www.molvis.org/molvis/v12/a188/v12a188-kim.pdf</a> [retrieved on 2018-11-02] cited in the application Whole document, especially table 2</p>	1-22, 38-57
A	<p>MICHAEL L SCHWARTZ ET AL: "Brain-specific Enhancement of the Mouse Neurofilament Heavy Gene Promoter in vitro", J BIOL CHEM., vol. 269, no. 18, 1 January 1994 (1994-01-01), pages 13444-13450, XP055520822, ISSN: 1552-2466 the whole document</p>	1-57
A	<p>ZHANG G-R ET AL: "A tyrosine hydroxylase-neurofilament chimeric promoter enhances long-term expression in rat forebrain neurons from helper virus-free HSV-1 vectors", MOLECULAR BRAIN RESEARCH, ELSEVIER SCIENCE BV, AMSTERDAM, NL, vol. 84, 1 January 2000 (2000-01-01), pages 17-31, XP002904376, ISSN: 0169-328X, DOI: 10.1016/S0169-328X(00)00197-2 Whole document, especially figure 1B.</p>	1-57
A	<p>GAO ET AL: "Isolation of an enhancer from the rat tyrosine hydroxylase promoter that supports long-term, neuronal-specific expression from a neurofilament promoter, in a helper virus-free HSV-1 vector system", BRAIN RESEARCH, ELSEVIER, AMSTERDAM, NL, vol. 1130, 26 January 2007 (2007-01-26), pages 1-16, XP022030849, ISSN: 0006-8993, DOI: 10.1016/J.BRAINRES.2006.10.018 the whole document</p>	1-57
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## INTERNATIONAL SEARCH REPORT

International application No

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	<p>KILLIAN S. HANLON ET AL: "A Novel Retinal Ganglion Cell Promoter for Utility in AAV Vectors", FRONTIERS IN NEUROSCIENCE, vol. 11, 21 September 2017 (2017-09-21), XP055520701, DOI: 10.3389/fnins.2017.00521 the whole document -----</p>	1-57

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/EP2018/073643

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 2017093566	A1	08-06-2017	
		AU 2016363830	A1 17-05-2018
		CA 3004807	A1 08-06-2017
		EP 3384036	A1 10-10-2018
		WO 2017093566	A1 08-06-2017
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