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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: NOGO RECEPTOR HOMOLOGUES AND THEIR USE

(57) Abstract: This invention relates to gene polypeptides and polynucleotides that encode proteins of the Nogo-66 receptor (NgR) family and are therefore called NgR homologue 2 (NgRH2). The invention further relates to their use in identifying compounds that may be agonists or antagonists that are potentially useful in regeneration and protection of the nervous system, and to production of NgRH2 polypeptides, derivatives, and antibodies.



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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/09517

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/71 C07K16/18 C12N15/12 C12N15/70 C12N15/62
C12N5/10 G01N33/53

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 7 C07K

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)

EPO-Internal, BIOSIS, WPI Data, PAJ, MEDLINE, SEQUENCE SEARCH

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	FOURNIER A ET AL: "Identification of a receptor mediating Nogo-66 inhibition of axonal regeneration" NATURE, MACMILLAN JOURNALS LTD. LONDON, GB, vol. 409, no. 6818, 18 January 2001 (2001-01-18), pages 341-346, XP000926532 ISSN: 0028-0836 cited in the application the whole document	1-15
Y	WO 01 51520 A (UNIV YALE ;STRITTMATTER STEPHEN M (US)) 19 July 2001 (2001-07-19) see in particular examples, claims, sequence listings --- -/--	1-15



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
- *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.

G document member of the same patent family

Date of the actual completion of the international search

13 February 2003

Date of mailing of the international search report

28/02/2003

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP 02/09517

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, Y	DOMENICONI MARCO ET AL: "Myelin-associated glycoprotein interacts with the Nogo66 receptor to inhibit neurite outgrowth." NEURON, vol. 35, no. 2, 18 July 2002 (2002-07-18), pages 283-290, XP002231053 July 18, 2002 ISSN: 0896-6273 cited in the application see discussion, in particular, page 287, right-hand column	1-15
P, X	WO 02 29059 A (SAH DINAH W Y ; UNIV YALE (US); BIOGEN INC (US); CATE RICHARD L (US) 11 April 2002 (2002-04-11) see in particular, the sequence listing, examples and claims	1-15
P, A	LIU BETTY P ET AL: "Myelin-associated glycoprotein as a functional ligand for the Nogo-66 receptor." SCIENCE (WASHINGTON D C), vol. 297, no. 5584, 2002, pages 1190-1193, XP002231054 16 August, 2002 ISSN: 0036-8075 cited in the application the whole document	1-15

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 1-15 relate to an extremely large number of possible compounds (e.g. fragments, variants). In fact, the claims contain so many options that a lack of clarity (and conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear (and concise), namely to the nucleic acid and polypeptides of the respective sequences SEQ ID NO: 1, 2, 24 and 25.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/EP 02/09517

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:
see FURTHER INFORMATION sheet PCT/ISA/210
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

International Application No

PCT/EP 02/09517

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 0151520 A	19-07-2001	AU 2940101 A	24-07-2001
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		CZ 20022438 A3	16-10-2002
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WO 0229059 A	11-04-2002	AU 1153902 A	15-04-2002
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