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INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 6 :
C12N 15/12, 15/11, C07K 14/47, 16/18, C12Q 1/68, A01K 67/00, G01N 33/68, A61K 48/00

A3

(11) International Publication Number: **WO 98/21333**

(43) International Publication Date: 22 May 1998 (22.05.98)

(21) International Application Number: PCT/US97/21005

(22) International Filing Date: 14 November 1997 (14.11.97)

(30) Priority Data:
60/030,987 15 November 1996 (15.11.96) US

(71) Applicant: CEDARS–SINAI MEDICAL CENTER [US/US]; 8700 Beverly Boulevard, Los Angeles, CA 90048–1865 (US).

(72) Inventors: PULST, Stefan, M.; 8125 Skyline Drive, Los Angeles, CA 90046 (US). SCOLES, Daniel, R.; Apartment 105, 10882 Rose Avenue, Los Angeles, CA 90034 (US).

(74) Agents: RAMOS, Robert, T. et al.; Campbell & Flores LLP, Suite 700, 4370 La Jolla Village Drive, San Diego, CA 92122 (US).

(81) Designated States: AU, CA, JP, European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(88) Date of publication of the international search report:
14 January 1999 (14.01.99)

(54) Title: NUCLEIC ACID ENCODING SCHWANNOMIN–BINDING–PROTEINS AND PRODUCTS RELATED THERETO

(57) Abstract

In accordance with the present invention, there are provided novel Schwannomin–Binding–Proteins (SBPs). Nucleic acid sequences encoding such proteins and assays employing same are also disclosed. The invention SBPs can be employed in a variety of ways, for example, for the production of anti–SBP antibodies thereto, in therapeutic compositions and methods employing such proteins and/or antibodies. Also provided are transgenic non–human mammals that express the invention protein.

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INTERNATIONAL SEARCH REPORT

Internal Application No
PCT/US 97/21005

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C12N15/12 C12N15/11 C07K14/47 C07K16/18 C12Q1/68
A01K67/00 G01N33/68 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 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)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	TAKESHIMA H. ET AL.: "Detection of cellular proteins taht interact with the NF2 tumor suppressor gene" ONCOGENE, vol. 9, no. 8, August 1994, pages 2135-2144, XP002063402 GB see the whole document ---	1,13,26
X	SCOLES D.R. ET AL.: "The neurofibromatosis 2 gene product schwannomin interacts with beta-II-spectrin" AMERICAN JOURNAL OF HUMAN GENETICS, vol. 59, no. 4(suppl.), 2 November 1996, XP002063403 Abstract A5 see the whole document ---	1,13,26

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[X] 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

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Date of the actual completion of the international search	Date of mailing of the international search report
2 October 1998	12. 11. 98

Name and mailing address of the ISA	Authorized officer
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	Panzica, G

4

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INTERNATIONAL SEARCH REPORT

Internat. ..al Application No
PCT/US 97/21005

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	PAUL M.A. ET AL.: "characterization of fodrin interaction with the NF2 tumor suppressor gene product schwannomin (merlin) and varying strenghts of protein binding that correlate with NF2 patient phenotypes" NEUROLOGY, vol. 48, no. 3 (suppl.2), April 1997, XP002063404 A393-A394 ---	1,13,26, 29
X,P	SCOLES D.R. ET AL.: "Identification and characterization of interaction between the NF2 geneproduct Schwannomin and beta-II-spectrin" MOLECULAR BIOLOGY OF THE CELL, vol. 7 (supplement), December 1996, XP002063405 386A ---	1,13,26
X,P	ASANO K. ET AL.: "Conservation and diversity of eukariotic translation initiation factor elF3" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 272, no. 2, 10 January 1997, pages 1101-1109, XP002076568 MD US	9-11
A	see the whole document ------	2-8

4

INTERNATIONAL SEARCH REPORT

International application No.
PC1/US 97/21005

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:

1.Claims 1-29 (partially)
2.Claims 1-29 (partially)
3.Claims 1-29 (partially)
4.Claims 1-29 (partially)
5.Claims 1-29 (partially)

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.:

2.Claims 1-29 (partially)
3.Claims 1-29 (partially)

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.