



INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁶ : C12N 15/12, C07K 14/47, 16/18, A61K 38/17		A3	(11) International Publication Number: WO 99/64596
			(43) International Publication Date: 16 December 1999 (16.12.99)
(21) International Application Number: PCT/US99/13281		GLER, Karl, J. [CH/US]; 1048 Oakland Avenue, Menlo Park, CA 94025 (US). GORGONE, Gina, A. [US/US]; 1253 Pinecrest Drive, Boulder Creek, CA 95005 (US). BAUGHN, Mariah, R. [US/US]; 14244 Santiago Road, San Leandro, CA 94577 (US). PATTERSON, Chandra [US/US]; 490 Sherwood Way #1, Menlo Park, CA 94025 (US). LU, Dyung, Aina, M. [US/US]; 55 Park Belmont Place, San Jose, CA 95136 (US). (74) Agents: BILLINGS, Lucy, J. et al.; Incyte Pharmaceuticals, Inc., 3174 Porter Drive, Palo Alto, CA 94304 (US). (81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).	
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60/089,029	12 June 1998 (12.06.98) US		
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60/104,624	14 October 1998 (14.10.98) US		
(63) Related by Continuation (CON) or Continuation-in-Part (CIP) to Earlier Applications			
US	60/094,575 (CIP)		
Filed on	29 July 1998 (29.07.98)		
US	60/104,624 (CIP)		
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		Published <i>With international search report.</i> <i>Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
		(88) Date of publication of the international search report: 6 April 2000 (06.04.00)	
(54) Title: PROTEINS REGULATING GENE EXPRESSION			
(57) Abstract			
The invention provides human proteins regulating gene expression (PRGE) and polynucleotides which identify and encode PRGE. The invention also provides expression vectors, host cells, antibodies, agonists, and antagonists. The invention also provides methods for diagnosing, treating or preventing disorders associated with expression of PRGE.			

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/13281

A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/12 C07K14/47 C07K16/18 A61K38/17

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.
X	SU L ET AL: "LYAR, a novel nucleolar protein with zinc finger DNA-binding motifs, is involved in cell growth regulation" GENES AND DEVELOPMENT., vol. 7, 1993, COLD SPRING HARBOR LABORATORY PRESS, NEW YORK., US, pages 735-748, XP002118338 see figure 1	1,3,5,9
X	EP 0 679 716 A (MATSUBARA, KENICHI ET AL) 2 November 1995 SEQ ID NO 1837 see figure 1	5,9

☒ 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.

"Z" document member of the same patent family

Date of the actual completion of the international search

12 October 1999

Date of mailing of the international search report

09.02.2000

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 99/13281

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	HILLIER L ET AL.: "Homo sapiens cDNA clone 743852, similar to TR:G300372 Cell Growth Regulating Nucleolar Protein" EMBEST DATABASE ENTRY AA634416, ACCESSION NUMBER AA634416, 31 October 1997, XP002118339 sequence see figure 1 ---	5,9,11 -
X	HILLIER L ET AL: "Homo sapiens cDNA clone 366009, similar to TR:G300372 Cell Growth Regulating Nucleolar Protein" EMBEST DATABASE ENTRY HSA63624, ACCESSION NUMBER AA063624, 25 September 1996, XP002118340 sequence see figure 1 -----	5,9,11

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 99/ 13281

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:

see FURTHER INFORMATION sheet PCT/ISA/210
2. ☒ Claims Nos.: 17, 18, 20
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:

see additional 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.:

see additional sheet, subject 1.

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 99/13281

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box 3.

Although claims 19,20 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.

Further defect(s) under Article 17(2)(a):

Continuation of Box 3.

Claims Nos.: 17,18,20

Claims 17 and 18 relate to an agonist and antagonist, respectively, of the polypeptide without giving a true technical characterization. In addition, claim 20 relates back to claim 18 for the use of said antagonist in a medical treatment claim. Therefore, the scope of said claims is ambiguous and vague, and their subject-matter is not sufficiently disclosed and supported (Art. 5 and 6 PCT).

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/US 99/13281

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

1. Claims: in part: 1-16,19

Polypeptide, antibody and pharmaceutical composition
relating to SEQ ID NO 1; polynucleotide, expression vector,
and host cell relating to SEQ ID NO 32

2-31. Claims: in part: 1-16,19

Polypeptide, antibody and pharmaceutical composition
relating to SEQ ID NO 2-31; polynucleotide, expression
vector, and host cell relating to SEQ ID NO 33-62

INTERNATIONAL SEARCH REPORT

Information on patent family members

Intern. al Application No

PCT/US 99/13281

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 679716 A	02-11-1995	AU 8116494 A	13-06-1995
		CA 2153480 A	01-06-1995
		WO 9514772 A	01-06-1995
