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Declarations under Rule 4.17:

— *as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, 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, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)*

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

Published:

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Previous Correction:
see PCT Gazette No. 22/2002 of 30 May 2002, Section II

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: NUCLEIC ACIDS, VECTORS, HOST CELLS, POLYPEPTIDES AND USES THEREOF

(57) Abstract: The present invention provides nucleic acid sequences encoding novel huna LP123, LP127, and LP129 proteins. These novel nucleic acids are useful for constructing the claimed DNA vectors and host cells of the invention and for preparing the claimed recombinant proteins and antibodies that are useful in the claimed methods and medical uses.

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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N15/12 C12N15/62 C12N5/10 C12N1/21 C07K14/47
A61K38/17 G01N33/50

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 C12N C07K A61K G01N

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)
EMBL, EPO-Internal, WPI Data, PAJ, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EMBL [Online] EMBL; partial doc, 4 August 1999 (1999-08-04) DOE JOINT GENOME INSTITUTE: "Homo sapiens chromosome 16 clone RP11-433G23, WORKING DRAFT SEQUENCE, 40 unordered pieces" Database accession no. AC009098 XP002202380 Note: 100.0% nt seq identity in 282 nt overlap (58018-58299:282-1). abstract --- -/--	1-10

[X] Further documents are listed in the continuation of box C.

[X] 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.

"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
19 June 2002	25. 09. 2002

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	van de Kamp, M

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INTERNATIONAL SEARCH REPORT

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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.
A	CLEMETSON J M ET AL.: "The platelet collagen receptor glycoprotein VI is a member of the immunoglobulin superfamily closely related to FcalphaR and the natural killer receptors." JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 274, no. 41, 8 October 1999 (1999-10-08), pages 29019-29024, XP002202379 ISSN: 0021-9258 abstract	
A	WO 99 06427 A (MILLENNIUM BIOTHERAPEUTICS INC) 11 February 1999 (1999-02-11) page 2, line 7-18 page 23, line 34 -page 24, line 3 example 1 claims 1-23	
A	WO 99 18204 A (KATO SEISHI ;PROTEGENE INC (JP); SEKINE SHINGO (JP); SAGAMI CHEM R) 15 April 1999 (1999-04-15) examples 1-4 page 1, line 1 -page 3, line 17	
A	SULSTON J E ET AL.: "Toward a complete human genome sequence" GENOME RESEARCH, COLD SPRING HARBOR LABORATORY PRESS, US, vol. 8, no. 11, 1998, pages 1097-1108, XP002181292 ISSN: 1088-9051 the whole document	
P,X	DATABASE EMBL [Online] GSN; 9 August 2001 (2001-08-09) ROSEN C A ET AL.: "Human immune/haematopoietic antigen genomic sequence SEQ ID NO:21268" Database accession no. AAK66456 XP002202381 Note: 100.0% nt seq identity of SEQ ID NO:21268 with SEQ ID NO:1 in 282 nt overlap (1292-1573:1-282). the whole document	1-10
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INTERNATIONAL SEARCH REPORT

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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. [X] Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

Although claim 32 is 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.

2. [X] 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. [X] 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.:

Claims 1-34 (all 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.

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FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Present claims 29-34 relate or partly relate to a compound defined by reference to a desirable characteristic or property, namely that it is an agonist or antagonist to LP123 or an inhibitor of LP123-modulated signaling. The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such compounds. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the compounds by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to compounds which are antibody or antisense molecules.

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 01/22602

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. Claims: 1-34 (all partially)

Isolated nucleic acid molecule comprising DNA having at least 75% sequence identity to a DNA molecule encoding an LP123 polypeptide according to SEQ ID NO:2, e.g., comprising a nucleotide sequence according to SEQ ID NO:1, and complements thereof, nucleic acid molecules hybridizing therewith, variants or fragments thereof. A vector comprising said nucleic molecule, and a host cell comprising said vector. An isolated polypeptide encoded by said nucleic acid molecule, and a method of producing said polypeptide. A chimeric molecule comprising said polypeptide. An antibody binding to said polypeptide. An agonist or an antagonist to said polypeptide. A pharmaceutical composition comprising said polypeptide, agonist, antagonist or antibody. Further methods of use and diagnosis related to said polypeptide.

2. Claims: 1-34 (all partially)

As invention 1, but related to a DNA molecule encoding an LP127 polypeptide according to SEQ ID NO:4, e.g., comprising a nucleotide sequence according to SEQ ID NO:3.

3. Claims: 1-34 (all partially)

As invention 1, but related to a DNA molecule encoding an LP129 polypeptide according to SEQ ID NO:6, e.g., comprising a nucleotide sequence according to SEQ ID NO:5.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
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Information on patent family members

International Application No
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