



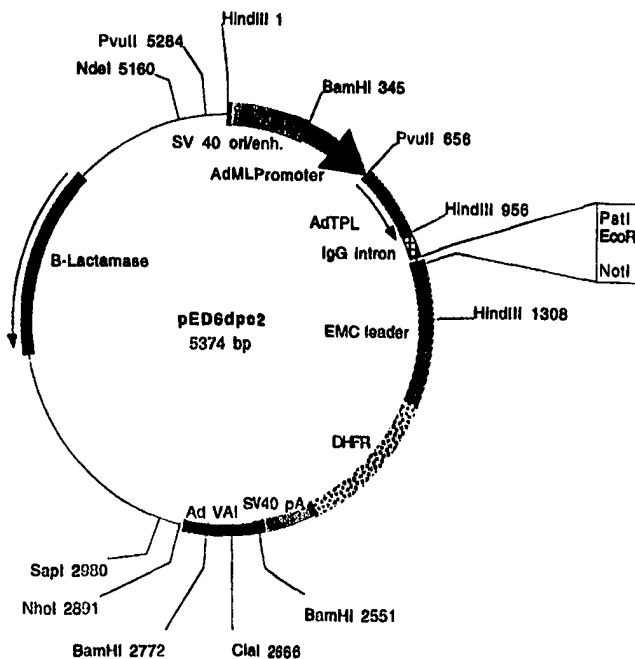
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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| <p>(51) International Patent Classification ⁶ : C12N 15/12, 5/10, C07K 14/47, C12Q 1/68, A61K 38/17</p> | <p>A3</p> | <p>(11) International Publication Number: WO 98/30695</p> <p>(43) International Publication Date: 16 July 1998 (16.07.98)</p> |
| <p>(21) International Application Number: PCT/US98/00543</p> <p>(22) International Filing Date: 9 January 1998 (09.01.98)</p> <p>(30) Priority Data: 08/780,814 9 January 1997 (09.01.97) US 09/004,684 8 January 1998 (08.01.98) US</p> <p>(71) Applicant: GENETICS INSTITUTE, INC. [US/US]; 87 CambridgePark Drive, Cambridge, MA 02140 (US).</p> <p>(72) Inventors: JACOBS, Kenneth; 151 Beaumont Avenue, Newton, MA 02160 (US). MCCOY, John, M.; 56 Howard Street, Reading, MA 01867 (US). LAVALLIE, Edward, R.; 90 Green Meadow Drive, Tewksbury, MA 01876 (US). RACIE, Lisa, A.; 124 School Street, Acton, MA 01720 (US). MERBERG, David; 2 Orchard Drive, Acton, MA 01720 (US). TREACY, Maurice; 93 Walcott Road, Chestnut Hill, MA 02167 (US). SPAULDING, Vikki; 11 Meadowbank Road, Billerica, MA 01821 (US). AGOSTINO, Michael, J.; 26 Wolcott Avenue, Andover, MA 01810 (US).</p> <p>(74) Agent: SPRUNGER, Suzanne, A.; Genetics Institute, Inc., 87 CambridgePark Drive, Cambridge, MA 02140 (US).</p> | <p>(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, HU, 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, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG).</p> <p>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></p> <p>(88) Date of publication of the international search report: 12 November 1998 (12.11.98)</p> | |

(54) Title: SECRETED PROTEINS AND POLYNUCLEOTIDES ENCODING THEM

(57) Abstract

Novel polynucleotides and the proteins encoded thereby are disclosed.



Plasmid name: pED6dpc2

Plasmid size: 5374 bp

Comments/References: pED6dpc2 is derived from pED6dpc1 by insertion of a new polylinker to facilitate cDNA cloning. SST cDNAs are cloned between EcoRI and NotI.

pED vectors are described in Kaufman et al.(1991), NAR 19: 4485-4490.

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INTERNATIONAL SEARCH REPORT

International Application No

PC, JS 98/00543

| A. CLASSIFICATION OF SUBJECT MATTER IPC 6 C12N15/12 C12N5/10 C07K14/47 C12Q1/68 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 C12Q 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 | L. HILLIER ET AL.: "The WashU-Merck EST Project" EMBL SEQUENCE DATABASE, 30 October 1996, HEIDELBERG, FRG, XP002069881 cited in the application z190d02.rl Stratagene colon (#937204) Homo sapiens cDNA clone 511875 5' similar to TR:G609419 G609419 Chromosome XII cosmid 8039; Accession no. AA099884; --- -/-- | 1,13 |
| <input checked="" type="checkbox"/> | Further documents are listed in the continuation of box C. | <input checked="" type="checkbox"/> Patent family members are listed in annex. |
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| Date of the actual completion of the international search 9 July 1998 | | Date of mailing of the international search report 30.09.98 |
| Name and mailing address of the ISA 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 | | Authorized ISA officer HORNIG H. |

INTERNATIONAL SEARCH REPORT

International Application No

PCT, JS 98/00543

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| A | EP 0 510 691 A (OSAKA BIOSCIENCE INST) 28 October 1992 see the whole document --- | 1-13 |
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 98/00543

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:

see further information 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.:

1-13

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

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

1. Claims: 1-13

A composition comprising an isolated polynucleotide selected from the group consisting of: SEQ ID no.1; said composition wherein said polynucleotide is operably linked to an expression control sequence; a host cell transformed with said composition; a process for producing a protein which is encoded by said polynucleotide sequence; a composition comprising a protein, wherein said protein comprises an amino acid sequence selected from the group of SEQ ID no.2, said composition further comprising a pharmaceutical acceptable carrier; a method for preventing, treating or ameliorating a medical condition which comprises administering to a mammalian subject a therapeutically effective amount of said composition, the gene corresponding to the cDNA sequence of SEQ ID no.1.

2. Claims: 14-16

A composition comprising an isolated polynucleotide sequence selected from the group of SEQ ID no.5; a composition comprises a protein, wherein said protein comprises an amino acid sequence selected from the group of SEQ ID no.6; the gene corresponding to the cDNA sequence of SEQ ID no.5;

3. Claims: 17-19

Idem as subject 2 but limited to SEQ ID nos.7 and 8.

4. Claims: 20-22

Idem as subject 2 but limited to SEQ ID nos.9 and 10.

5. Claims: 23-25

Idem as subject 2 but limited to SEQ ID nos.11 and 12.

6. Claims: 26-28

Idem as subject 2 but limited to SEQ ID nos.13 and 14.

7. Claims: 29-31

Idem as subject 2 but limited to SEQ ID nos.15 and 16.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

8. Claims: 32-34

Idem as subject 2 but limited to SEQ ID nos.17 and 18.

9. Claims: 35-37

Idem as subject 2 but limited to SEQ ID nos.19 and 20.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT, JS 98/00543

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INTERNATIONAL SEARCH REPORT

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PCT, JS 98/00543

| Patent document cited in search report | Publication date | Patent family member(s) | Publication date |
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