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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, OM, PH, PL, PT, RO, RU, SD, SE, SG,
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ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK,
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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: PURIFIED BACTERIAL POLYPEPTIDES INVOLVED IN PROTEIN PROCESSING

(57) Abstract: The present invention relates to polypeptide targets for pathogenic bacteria. The invention also provides biochemical and biophysical characteristics of those polypeptides.

WO 2003/025005 A3

INTERNATIONAL SEARCH REPORT

Intern	Application No
PCT/CA 02/01426	

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07K14/31 C12N15/52		
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 C12N		
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, EMBL		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 18187 A (HODGSON JOHN E ;PRATT JULIE M (GB); SMITHKLINE BEECHAM PLC (GB); B) 15 April 1999 (1999-04-15) SEQ ID No 2	1-28
X	EP 0 786 519 A (HUMAN GENOME SCIENCES INC) 30 July 1997 (1997-07-30) SEQ ID No 364.	1-28
A	KOTRA LAKSHMI P ET AL: "From genes to sequences to antibiotics: Prospects for future developments from microbial genomics." MICROBES AND INFECTION, vol. 2, no. 6, May 2000 (2000-05), pages 651-658, XP002248204 ISSN: 1286-4579 the whole document	1-28
-/--		
<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.		
° 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 <div style="text-align: center; font-size: 1.2em;">17 July 2003</div>	Date of mailing of the international search report <div style="text-align: center; font-size: 1.5em; font-weight: bold;">02.12.03</div>	
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 officer <div style="text-align: center; font-size: 1.2em;">Schwachtgen, J-L</div>	

INTERNATIONAL SEARCH REPORT

International Application No

PCT/CA 02/01426

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>ROSAMOND J ET AL: "Harnessing the power of the genome in the search for new antibiotics" SCIENCE, AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE,, US, vol. 287, no. 5460, 17 March 2000 (2000-03-17), pages 1973-1976, XP002226396 ISSN: 0036-8075 the whole document</p> <p style="text-align: center;">-----</p>	1-28

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA 02/01426

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 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.:

1-28

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: 1-28

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid sequence set forth in SEQ ID NO: 5 or SEQ ID NO: 7.
Subject-matter related thereto.

2. Claims: 29-53

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid sequence set forth in SEQ ID NO: 14 or SEQ ID NO: 16.
Subject-matter related thereto.

3. Claims: 54-80

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid sequence set forth in SEQ ID NO: 23 or SEQ ID NO: 25.
Subject-matter related thereto.

4. Claims: 81-107

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid sequence set forth in SEQ ID NO: 32 or SEQ ID NO: 34.
Subject-matter related thereto.

5. Claims: 108-134

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid sequence set forth in SEQ ID NO: 41 or SEQ ID NO: 43.
Subject-matter related thereto.

6. Claims: 135-161

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid sequence set forth in SEQ ID NO: 50 or SEQ ID NO: 52.
Subject-matter related thereto.

7. Claims: 162-188

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

sequence set forth in SEQ ID NO: 59 or SEQ ID NO: 61.
Subject-matter related thereto.

8. Claims: 189-215

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid sequence set forth in SEQ ID NO: 68 or SEQ ID NO: 70.
Subject-matter related thereto.

9. Claims: 216-242

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid sequence set forth in SEQ ID NO: 77 or SEQ ID NO: 79.
Subject-matter related thereto.

10. Claims: 245-271

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid sequence set forth in SEQ ID NO: 86 or SEQ ID NO: 88.
Subject-matter related thereto.

11. Claims: 272-299

A composition comprising an isolated recombinant polypeptide, wherein the polypeptide comprises an amino acid sequence set forth in SEQ ID NO: 95 or SEQ ID NO: 97.
Subject-matter related thereto.

INTERNATIONAL SEARCH REPORT

Information on patent family members

Internat. application No

PCT/CA 02/01426

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO 9918187	A	15-04-1999	EP 0968276 A1 05-01-2000
			JP 2001514530 T 11-09-2001
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			US 6126937 A 03-10-2000
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