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C12Q 1/68, C12N 5/10,  
C07K 16/18, G01N 33/53,  
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A61K 38/17

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(54) **Polynucleotide encoding autoantigens associated with endometriosis**

(57) This invention provides a polynucleotide encoding Repro-EN-1.0 and IB1, polypeptides associated with endometriosis. Auto-antibodies against Repro-EN-

1.0 and IB1 have been found in subjects diagnosed with endometriosis. This invention also provides methods of using this polynucleotide and polypeptide.

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**PARTIAL EUROPEAN SEARCH REPORT**

Application Number

which under Rule 45 of the European Patent Convention shall be considered, for the purposes of subsequent proceedings, as the European search report

EP 00 31 0408

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
X	Emest24 Database Entry Hs888330 Accession number W19888; 5 May 1996 HILLIER ET AL.: "The WashU-Merck EST Project" XP002126944 * the whole document *	16, 18, 57-60	C12N15/12 C07K14/47 C12Q1/68 C12N5/10 C07K16/18 G01N33/53 G01N33/557
X	EMBL Database Entry AI832097 Accession number AI832097; 13 July 1999 ROBERT STRAUSBERG XP002141979 * the whole document *	16, 18, 57-60	C07K19/00 A61K38/17
X	US 5 880 261 A (GERARD WAEBER ET AL.) 9 March 1999 (1999-03-09) * column 2, line 3 - column 4, line 27 *	28, 56	
A	WO 94 28021 A (MEDICAL UNIVERSITY OF SOUTH CAROLINA) 8 December 1994 (1994-12-08) * the whole document *	1-46, 48, 49, 52, 53, 55-60	
			<b>TECHNICAL FIELDS SEARCHED (Int.Cl.7)</b>
			C12N C07K C12Q G01N A61K
<b>INCOMPLETE SEARCH</b>			
The Search Division considers that the present application, or one or more of its claims, does/do not comply with the EPC to such an extent that a meaningful search into the state of the art cannot be carried out, or can only be carried out partially, for these claims.			
Claims searched completely :			
Claims searched incompletely :			
Claims not searched :			
Reason for the limitation of the search: see sheet C			
Place of search		Date of completion of the search	Examiner
THE HAGUE		30 May 2001	Montero Lopez, B
CATEGORY OF CITED DOCUMENTS		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons	
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		& : member of the same patent family, corresponding document	

EPO FORM 1503 03 82 (P04C07)



Claim(s) searched completely:  
1-46, 48, 49, 52, 53, 55-60

Claim(s) not searched:  
47, 50, 51, 54

Reason for the limitation of the search:

Present claims 47, 50, 51 and 54 relate to a compound defined by reference to a desirable characteristic or property, namely inhibiting the immune response against ReprO-EN-1.0 or IB1. The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 84 EPC and/or disclosure within the meaning of Article 83 EPC 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 84 EPC). An attempt is made to define the compound 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, no search has been carried out for claims 47, 50, 51 and 54.

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 00 31 0408

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

30-05-2001

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5880261 A	09-03-1999	AU 6847298 A EP 0973895 A WO 9844106 A	22-10-1998 26-01-2000 08-10-1998
WO 9428021 A	08-12-1994	AU 6960694 A	20-12-1994

EPC FORM P0459

For more details about this annex : see Official Journal of the European Patent Office, No. 12/82

专利名称(译)	编码与子宫内膜异位症相关的自身抗原的多核苷酸		
公开(公告)号	<a href="#">EP1106690A3</a>	公开(公告)日	2001-07-25
申请号	EP2000310408	申请日	2000-11-23
[标]申请(专利权)人(译)	诊断产品		
申请(专利权)人(译)	诊断产品有限公司		
当前申请(专利权)人(译)	诊断产品有限公司		
[标]发明人	EL SHAMI A SAID MENON SURENDRA NATH FRENCH CYNTHIA K		
发明人	EL SHAMI, A. SAID MENON, SURENDRA NATH FRENCH, CYNTHIA K.		
IPC分类号	A61K38/00 C07K14/47 C12N15/12 A61K38/17 C07K16/18 C07K19/00 C12N5/10 C12Q1/68 G01N33/53 G01N33/557		
CPC分类号	C07K14/4713 A61K38/00 G01N2800/364		
优先权	09/447399 1999-11-23 US		
其他公开文献	EP1106690A2 EP1106690B1		
外部链接	<a href="#">Espacenet</a>		

摘要(译)

本发明提供编码Repro-EN-1.0和IB1的多核苷酸，与子宫内膜异位症相关的多肽。在诊断患有子宫内膜异位症的受试者中发现了针对Repro-EN-1.0和IB1的自身抗体。本发明还提供了使用该多核苷酸和多肽的方法。

**European Patent Office PARTIAL EUROPEAN SEARCH REPORT** Application Number: EP 00 31 0408

Which enters into force by the European Patent Convention for the purposes of subsequent proceedings, as the European search report.

Category	Citation of document with indication, where appropriate, of relevant passages	Relevance to claim	CLASSIFICATION OF THE APPLICATION (IPC/C12)
X	Emest24 Database Entry H5888330 Accession number: W19888; 5 May 1996 HILLIER ET AL.: The Wachter-Merck, EST Project - XP002126944 * the whole document *	16, 18, 57-60	C12N15/12 C07K14/47 C12Q1/68 C12N5/10 C07K16/18 G01N33/53 G01N33/557
X	EMBL Database Entry A1832097 Accession number: A1832097; 13 July 1999 ROBERT STRAUSBERG XP002141979 * the whole document *	16, 18, 57-60	C07K16/18 C07K19/00 A61K38/17
X	US 5 880 261 A (GERARD WAEBER ET AL.) 9 March 1999 (1999-03-09) * column 2, line 3 - column 4, line 27 *	28, 56	
A	WO 94 28021 A (MEDICAL UNIVERSITY OF SOUTH CAROLINA) 8 December 1994 (1994-12-08) * the whole document *	1-46, 48, 49, 52, 53, 55-60	TECHNICAL FIELDS SEARCHED (IPC CL.7) C12N C07K C12Q G01N A61K

**INCOMPLETE SEARCH**

The Search Division concludes that the present application, or one or more of its claims, should be deemed not to have fully entered into the state of the art covered by the search.

Claims searched completely:  
 Claims searched incompletely:  
 Claims not searched:

Reasons for the limitation of the search:  
see sheet C

Place of search: **THE HAGUE** Date of completion of the search: **30 May 2001** Examiner: **Montero Lopez, B**

CATEGORY OF CODED INFORMATION

X: previously released & hence added	E: family related documents for publication or for the purposes of the application
A: previously released & confirmed disclosure of the same category with another technological development	F: document cited for other reasons
Y: previously released & confirmed disclosure of the same category with another technological development	G: document cited for other reasons
Z: intermediate documents	H: document of the same patent family, corresponding document