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13.11.2001 US 350666 P
08.02.2002 US 355145 P
08.02.2002 US 355257 P
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(62) Document number(s) of the earlier application(s) in
accordance with Art. 76 EPC:
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(54) **Methods of diagnosis of cancer, compositions and methods of screening for modulators of cancer**

(57) Described herein are genes whose expression are up-regulated or down-regulated in specific cancers. Related methods and compositions that can be used for diagnosis and treatment are disclosed. Also described

herein are methods that can be used to identify modulators of selected cancers.

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European Patent Office

PARTIAL EUROPEAN SEARCH REPORT

Application Number

which under Rule 63 of the European Patent Convention EP 06 00 7721 shall be considered, for the purposes of subsequent proceedings, as the European search report

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
X	TAKADA Y ET AL: "MOLECULAR CLONING AND EXPRESSION OF THE CDNA FOR ALPHA3 SUBUNIT OF HUMAN ALPHA3BETA1 (VLA-3), AN INTEGRIN RECEPTOR FOR FIBRONECTIN, LAMININ, AND COLLAGEN" THE JOURNAL OF CELL BIOLOGY, ROCKEFELLER UNIVERSITY PRESS, US, vol. 115, no. 1, 1 October 1991 (1991-10-01), pages 257-266, XP000611371 ISSN: 0021-9525 * the whole document *	1-9	INV. C12N15/12 C12N15/62 C12N15/70 C12N15/85 C12N5/10 C12N1/20 C07K14/47 C07K16/18 C12Q1/68 G01N33/574
X	DATABASE EMBL EBI, Hinxton, UK; 31 July 1998 (1998-07-31), Y SEKIMORI ET AL.: "Anti-integrin alpha3 antibody complexes" XP002494429 Database accession no. GenBank AAW54032 * abstract *	1-9	
			TECHNICAL FIELDS SEARCHED (IPC)
			C12N C07K C12Q G01N
INCOMPLETE SEARCH			
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		4 September 2008	Hornig, Horst
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 & : member of the same patent family, corresponding document	
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			

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EPO FORM 1503 03.02 (P04E07)



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	-& WO 98/09651 A (CHUGAI PHARMACEUTICAL CO LTD [JP]; SEKIMORI YASUO [JP]; KAWATA HIROMIT) 12 March 1998 (1998-03-12) * claims 1-23; sequence 7 * -----	1-13	
E	DATABASE EMBL EBI, Hinxton, UK; 21 March 2003 (2003-03-21), H.S. POULSEN ET AL.: "Methods for the identification of cancer cell surface molecules and cancer specific promoters, and therapeutic uses thereof" XP002494430 Database accession no. SQPRPUB/EBI; PATENT_PRT:AX658118 * abstract *	1-9	TECHNICAL FIELDS SEARCHED (IPC)
E	-& WO 03/000928 A (ODIN MEDICAL AS [DK]; POULSEN HANS SKOVGAARD [DK]; PEDERSEN NINA [DK];) 3 January 2003 (2003-01-03) * claims 1-167; sequence 34 * -----	1-14	
E	DATABASE EMBL EBI, Hinxton, UK; 2 July 2003 (2003-07-02), D.J. O'MAHONY ET AL.: "Genetic analysis of Peyer's patches and M cells and methods and compositions targeting Peyer's patches and M cell receptors" XP002494431 Database accession no. SQPRPUB/EBI; PATENT_PRT:AX771490 * abstract *	1-9	
E	-& WO 03/004646 A (O'MAHONY DANIEL J [IE]; BYRNE DARAGH [IE]; BRAYDEN DAVID [IE] ELAN COR) 16 January 2003 (2003-01-16) * claims 1-65; sequence 203 * ----- -/--	1-9	



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (IPC)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
E	DATABASE EMBL EBI, Hinxton, UK; 11 December 2002 (2002-12-11), J.E. MONAHAN ET AL.: "Human Ovarian cancer marker M454" XP002494432 Database accession no. GENSEQ: ABG96350 * abstract *	1-9	TECHNICAL FIELDS SEARCHED (IPC)
E	-& WO 02/071928 A (MILLENNIUM PHARM INC [US]; MONAHAN JOHN E [US]; GANNAVAPU MANJULA [U] 19 September 2002 (2002-09-19) * claims 1-167; sequences 155,164 * -----	1-14	
E	DATABASE EMBL EBI, Hinxton, UK; 10 September 2003 (2003-09-10), R. SCHLEGEL ET AL.: "Human cervical cancer cell marker encoding cDNA SEQ ID NO. 97" XP002494433 Database accession no. GENSEQ: ABR92094 * abstract *	1-9	
E	-& WO 02/101075 A (MILLENNIUM PHARM INC [US]; SCHLEGEL ROBERT [US]; CHEN YAN [US]; ZHAO X) 19 December 2002 (2002-12-19) * claims 1-8; sequence 97 * -----	1-14	



Claim(s) searched completely:
1-14

Claim(s) not searched:
15-19

Reason for the limitation of the search:

Present claims 15-19 relate to an isolated polypeptide which is encoded by one of the plethora of nucleic acid sequences comprising a sequence as described in Tables 2A-68, and to various embodiments relating to said sequences. Moreover, present claim 18 and 19 relate to an unspecified pathology, whereas Table 1 gives 254 possible examples of such a pathology.

Taking these facts into consideration (undefined pathology and extremely large number of sequences), present claims 15-19 relate to an absolutely huge number of possible embodiments. In fact the claims contain so many possible permutations that a lack of clarity (and conciseness) within the meaning of Article 84 EPC arises to such an extent as to render a meaningful search of the claims absolutely impossible.

Consequently, the search has been carried out for the first part of the application, namely to SEQ ID NOs. 294 and 124.

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

EP 06 00 7721

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.

04-09-2008

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WO 03000928	A	03-01-2003	CA 2489420 A1	03-01-2003
			CN 1547617 A	17-11-2004
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WO 03004646	A	16-01-2003	CA 2443644 A1	16-01-2003
			EP 1419252 A2	19-05-2004
WO 02071928	A	19-09-2002	NONE	
WO 02101075	A	19-12-2002	NONE	

专利名称(译)	癌症调节剂的癌症诊断方法，组合物和筛选方法		
公开(公告)号	EP1721977A3	公开(公告)日	2008-10-15
申请号	EP2006007721	申请日	2002-09-17
[标]申请(专利权)人(译)	PDL生物制药股份有限公司		
申请(专利权)人(译)	PDL BIOPHARMA , INC.		
当前申请(专利权)人(译)	PDL BIOPHARMA , INC.		
[标]发明人	AFAR DANIEL AZIZ NATASHA GISH KURT C HEVEZI PETER MACK DAVID H WILSON KEITH E ZLOTNIK ALBERT		
发明人	AFAR, DANIEL AZIZ, NATASHA GISH, KURT C. HEVEZI, PETER MACK, DAVID H. WILSON, KEITH E. ZLOTNIK, ALBERT		
IPC分类号	C12N15/12 C12N15/62 C12N15/70 C12N15/85 C12N5/10 C12N1/20 C07K14/47 C07K16/18 C12Q1/68 G01N33/574 G01N33/50 C07K14/82 C07K16/32 C12N1/15 C12N1/19 C12N1/21 C12N15/09 C12Q1/02 G01N33/15 G01N33/53 G01N37/00		
CPC分类号	G01N33/57449 C07K14/47 C12Q1/6886 C12Q2600/136 C12Q2600/156 C12Q2600/158 G01N2500/04		
优先权	60/323469 2001-09-17 US 60/323887 2001-09-20 US 60/350666 2001-11-13 US 60/355145 2002-02-08 US 60/355257 2002-02-08 US 60/372246 2002-04-12 US		
其他公开文献	EP1721977A2		
外部链接	Espacenet		

摘要(译)

本文描述的是在特定癌症中其表达上调或下调的基因。公开了可用于诊断和治疗的相关方法和组合物。本文还描述了可用于鉴定所选癌症的调节剂的方法。



which under Rule 29 of the European Patent Convention shall be considered for the purposes of subsequent proceedings, on the European search report

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X	TAKADA Y ET AL: "MOLECULAR CLONING AND EXPRESSION OF THE CDNA FOR ALPHA3 SUBUNIT OF HUMAN ALPHA3BETA1 (VLA-3), AN INTEGRIN RECEPTOR FOR FIBRONECTIN, LAMININ, AND COLLAGEN" THE JOURNAL OF CELL BIOLOGY, ROCKEFELLER UNIVERSITY PRESS, US, VOL. 115, NO. 1, October 1991, 1991-10-01, pages 257-268, XP000611371 ISSN: 0021-9525 * the whole document *	1-9	INV. C12N15/12 C12N15/62 C12N15/70 C12N15/85 C12N15/10 C12N1/20 C07K14/77 C07K16/18 G01N33/574
X	DATABASE EMBL EBI, Hinxton, UK; 31 July 1998 (1998-07-31), Y SEKIMORI ET AL: "Anti-integrin alpha3 antibody complexes" XP00284429 Database accession no. GenBank AA454032 * abstract *	1-9	TECHNICAL FIELDS SEARCHED (IPC) C12N C07K C12G G01N
INCOMPLETE SEARCH			
The search has been conducted in the present application, or one or more of its claims, drawings, not shown with the EPC to such an extent that a meaningful search into the state of the art could be carried out, or can only be carried out partially, for these claims. Claims searched incompletely: Claims not searched: Reason for the limitation of the search: see sheet C			
Place of search: The Hague		Date of completion of the search: 4 September 2008	Searcher: Hornig, Horst
CATEGORIES OF CITED DOCUMENTS X: automatically selected document V: automatically selected document with another document of the same category A: manually selected document D: non-written document S: searchable document		E: priority or parent application R: related patent document, not published on, or after, the filing date I: document cited in the application O: document cited for other reasons A: member of the same patent family, corresponding document	

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