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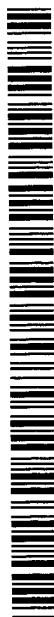


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60/149,472 19 August 1999 (19.08.1999) US
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(54) Title: REPLICATION PROTEIN A BINDING TRANSCRIPTIONAL FACTOR (RBT1) AND USES THEREOF

(57) Abstract: The present invention relates to replication protein A (RPA) transcriptional factors. There is provided a nucleotide sequence encoding a replication protein A binding transcriptional activator 1 (RBT1) and a protein encoded by such a nucleotide sequence. RBT1 has a high activity and is highly transactivated in cancer cells. The sequence may be used to treat neoplastic disorders and in gene therapy.

INTERNATIONAL SEARCH REPORT

International Application No
PCT/CA 00/00948

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/12 C12N15/62 C07K14/47 A61K48/00		
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		
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, WPI Data, PAJ, BIOSIS, EMBL, MEDLINE, EMBASE		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	DATABASE EM_EST 'Online! EMBL; ID HS1272698, AC AA482412, 24 June 1997 (1997-06-24) HILLIER L ET AL.: "zt34d02.r1 Soares ovary tumor NbHOT Homo sapiens cDNA clone IMAGE:724227 5', mRNA sequence" XP002167205 98.5% nt seq identity with SEQ ID NO:1 in 495 nt overlap (14-506:60-554) the whole document --- -/--	1-5, 10, 11
<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 <p style="text-align: center; font-weight: bold;">18 May 2001</p>	Date of mailing of the international search report <p style="text-align: center; font-weight: bold;">08/06/2001</p>	
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 <p style="text-align: center; font-weight: bold;">van de Kamp, M</p>	

INTERNATIONAL SEARCH REPORT

International Application No
PCT/CA 00/00948

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE EM_EST 'Online! EMBL; ID AA690874, AC AA690874, 19 December 1997 (1997-12-19) MARRA M ET AL.: "vt32d01.r1 Barstead mouse proximal colon MPLRB6 Mus musculus cDNA clone IMAGE:1164769 5', mRNA sequence" XP002167206 81.3% nt seq identity with SEQ ID NO:1 in 402 nt overlap (9-410:190-591) the whole document</p>	1-5,10, 11
X	<p>WO 98 37901 A (BOEHRINGER INGELHEIM PHARMA ;MARLIN STEVEN D (US); TATAKE REVATI J) 3 September 1998 (1998-09-03) page 1, line 5-14 page 5, line 4-14 examples 1,2 claims 1,12,14 figures 1,2</p>	8
X	<p>WO 98 00013 A (UNIV CALIFORNIA) 8 January 1998 (1998-01-08) page 2, line 7 -page 3, line 30 examples 1-8 claims 1,4,5</p>	8
A	<p>NAGELHUS TA ET AL.: "A sequence in the N-terminal region of human uracil-DNA glycosylase with homology to XPA interacts with the C-terminal part of the 34-kDa subunit of replication protein A" JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 272, no. 10, 7 March 1997 (1997-03-07), pages 6561-6566, XP002167201 abstract</p>	
A	<p>IFTODE C ET AL.: "Replication protein A (RPA): the eukaryotic SSB" CRITICAL REVIEWS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY, vol. 34, no. 3, 1999, pages 141-180, XP001002021 abstract figure 1 page 159, left-hand column, line 34 -page 166, left-hand column, line 29; table 2</p>	

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/CA 00/00948

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>WOLD MS: "Replication protein A: a heterotrimeric, single-stranded DNA-binding protein required for eukaryotic DNA metabolism" ANNUAL REVIEW OF BIOCHEMISTRY, vol. 66, 1997, pages 61-92, XP001002023 cited in the application abstract page 74, line 17 -page 76, line 27 ---</p>	
P,X	<p>DATABASE EM_HUM 'Online! EMBL; ID AC010271, AC AC010271, 17 September 1999 (1999-09-17) DOE JOINT GENOME INSTITUTE STANFORD HUMAN GENOME CENTER: "Homo sapiens chromosome 19 CTC-492K19, complete sequence" XP002167207 99.8% nt seq identity with SEQ ID NO:1 in 591 nt overlap (23191-23781:1-591) page 6-7 ---</p>	1,2,11
T	<p>CHO J M ET AL.: "RBT1, a novel transcriptional co-activator, binds the second subunit of Replication Protein A" NUCLEIC ACIDS RESEARCH, vol. 28, no. 18, 15 September 2000 (2000-09-15), pages 3478-3485, XP002167204 the whole document -----</p>	1-6,11

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Information on patent family members

International Application No

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