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(54) Title: FLAP ENDONUCLEASE 1 (FEN1) REGULATORY SEQUENCES AND USES THEREOF

(57) Abstract: *FEN1* transcriptional regulatory sequences (TREs) are provided. *FEN1* TREs provide for transcriptional regulation dependent upon transcription factors that are only active in cancer cells. The *FEN1* TREs may be used as a vehicle for introducing new genetic capability, particularly associated with cytotoxicity, for selective expression in cancer cells.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/11622

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12N 15/00, 15/09, 15/63, 15/70, 15/74; C07H 21/02, 21/04
 US CL : 435/320.1; 536/23.1

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)
 U.S. : 435/320.1; 536/23.1

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 practicable, search terms used)
 Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0168771 A1 (GAMERMAN) 14 November 2002 (14.11.02), see whole document especially pages 1 and 8-11.	1, 2, 5, 6
X	US 5,874,283 (HARRINGTON et al) 23 February 1999 (23.02.1999), see whole document especially columns 9, 22, 29.	1, 2, 3, 5

Further documents are listed in the continuation of Box C.

See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
"E" earlier application or patent published on or after the international filing date	"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
"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)	"&"	document member of the same patent family
"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		

Date of the actual completion of the international search
 25 October 2004 (25.10.2004)

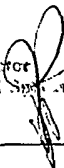
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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/11622

Continuation of B. FIELDS SEARCHED Item 3:

WEST 2.1, STN

search terms: FEN1, TRE, transcriptional response element, transcriptional regulatory element, adenovirus, TERT, E2F, PRL-3, IRES, ADP, flap

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/11622

Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:

a. type of material

a sequence listing

table(s) related to the sequence listing

b. format of material

in written format

in computer readable form

c. time of filing/furnishing

contained in the international application as filed

filed together with the international application in computer readable form

furnished subsequently to this Authority for the purposes of search

2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

3. Additional comments: