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(54) Title: COMPOSITIONS AND METHODS FOR THE THERAPEUTIC USE OF AN ATONAL-ASSOCIATED SEQUENCE FOR A GASTROINTESTINAL CONDITION

(57) Abstract: Compositions and methods are disclosed for the therapeutic use of an *atonal*-associated nucleic acid or amino acid sequence. Also, an animal heterozygous for an *atonal*-associated gene inactivation is also disclosed having at least one *atonal*-associated nucleic acid sequence replaced by insertion of a heterologous nucleic acid sequence used to detect expression driven by an *atonal*-associated promoter sequence, wherein the inactivation of the *atonal*-associated nucleic acid sequence prevents expression of the *atonal*-associated gene.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US02/41458

A. CLASSIFICATION OF SUBJECT MATTER
 IPC(7) : C12N 15/85; A61K 48/00
 US CL : 435/325; 514/44
 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)
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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)
 STN: EMBASE CAPLUS BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	van den BRINK et al. Epithelial Cell Differentiation-a Matter of Choice. Science 2001, Vol 294, pages 2115-2116.	All claims

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"T"
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"P" document published prior to the international filing date but later than the priority date claimed	

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