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(54) Title: HOX-GENE EXPRESSION AS A BIOMARKER FOR IGF-IR THERAPEUTICS

(57) Abstract: This invention provides methods for treating or preventing the onset of a tumor in a subject, wherein the tumor is determined to overexpress a Hox gene, including administering to the subject a therapeutically or prophylactically effective amount of an insulin-like growth factor-1 receptor (IGF-IR) antagonist. The invention also provides methods for determining whether a tumor in a subject is amenable to treatment with an IGF-IR antagonist including determining whether the tumor overexpresses a Hox gene, wherein overexpression of the Hox gene indicates that the tumor is amenable to treatment with an IGF-IR inhibitor.

INTERNATIONAL SEARCH REPORT

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A CLASSIFICATION OF SUBJECT MATTER

IPC GOIN 33/53(2006 01),C12Q 1/68(2006 01),A61K 39/395(2006 01),31/70(2006 01),C07H 21/04(2006 01),C07K 16/22(2006 01),16/28(2006 01)

USPC 435/6,7 1,536/24 5,5 14/44,424/130 1,530/388 22

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 435/6, 7 1, 536/24 5, 5 14/44, 424/130 1, 530/388 22

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	FERRANDO et al Gene expression signatures in M1-rearranged T-lineage and B-precursor acture leukemias dominance of HOX dysregulation Neoplasia 01 July 2003, Vol 102, No 1, pages 262-268, see abstract and page 266-267	18-20
Y	US 6,071,891 A (LOW et al) 06 June 2000 (06 06 2000), abstract, claims	21
A	GOLUB et al Molecular Classification of Cancer Class Discovery and Class Prediction by Gene Expression Monitoring Science 15 October 1999, Vol 286, pages 531-537, see entire disclosure	1-21

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
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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		
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Continuation of B. FIELDS SEARCHED Item 3:
Medline, US Patents database (EAST)
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