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(54) Title: CARDIAC PRESSURE OVERLOAD ASSOCIATED GENES

(57) Abstract: The present invention identifies genes whose gene products are differentially expressed pressure overload of the heart. The invention provides methods for diagnosing or assessing an individual's susceptibility to heart failure from many etiologies, as well as the presence and severity of hypertrophy, chamber enlargement, or systolic heart failure. Also provided are therapeutic methods for treating a heart patient or methods for prophylactically treating an individual susceptible to heart failure. Additionally, the invention describes screening methods for identifying agents that can be administered to treat individuals that have suffered a heart attack or are at risk of heart failure.



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**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/US05/33853

**A. CLASSIFICATION OF SUBJECT MATTER**  
 IPC: C12P 21/08( 2006.01)  
  
 USPC: 530/388.24  
 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. : Please See Continuation Sheet

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)  
 EAST/WEST, SCIRUS, PALM

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	FUJISAWA, H. et al. Expression of basic fibroblast growth factor and its receptor-1 in cardiac myxoma. J. CARDIOVASC. SURG. 2002, Vol. 43, pages 589-594, see entire document.	1,3,6 and 17
X	KARDAMI, E. et al. Regulation of basic fibroblast growth factor (bFGF) and FGF receptors in the heart. ANN. N.Y. ACAD. SCI. 1995, Vol. 752, pages 353-369, see entire document.	1,3,6 and 17


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

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"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
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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)	"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
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

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Continuation of B. FIELDS SEARCHED Item 1:

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