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ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN,
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Previous Correction:
see Notice of 12 April 2007

(54) Title: SINGLE NUCLEOTIDE POLYMORPHISMS ASSOCIATED WITH SUSCEPTIBILITY TO CARDIOVASCULAR DISEASE

(57) Abstract: The present invention provides SNPs, polymorphic variants, and haplotypes associated with cardiovascular disease. The invention also provides methods for detecting the SNPs, polymorphic variants, and haplotypes. The invention also provides methods for determining an individual's genotype with respect to one or more polymorphisms and/or haplotypes associated with cardiovascular disease. The invention further provides methods of determining whether an individual has or is susceptible to development or occurrence of a cardiovascular disease or event. The methods are useful for providing diagnostic and/or prognostic information, selecting therapeutic regimens, etc. The invention further provides reagents and kits for practicing the methods.



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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/29449

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - C12Q 1/68 (2010.01)

USPC - 435/6

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)
USPC- 435/6

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)
PubWEST (USPT, PGPB, EPAB, JPAB), Google/Patents/Scholar: cardiovascular, polymorphism, haplotype, allele, actin related protein M2, actin related protein T2

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 2005/0026169 A1 (Cargill et al.) 03 February 2005 (03.02.2005) para [0009], [0026]-[0028], [0030]-[0031], [0126], [0159], [0168], [0171], [0175], [0230], [0237], [0243], [0245], [0247]	1-2, 4-24, 26 ----- 3, 25
Y	US 2003/0113725 A1 (Small et al.) 19 June 2003 (19.06.2003) para [0023], [0025], [0141]	25
Y	US 2004/0014059 A1 (Liew) 22 January 2004 (22.01.2004) para [0007], [0035], [0072]	3
Y	Hara et al. Identification of two cDNAs for human actin-related proteins (Arps) that have remarkable similarity to conventional actin. Biochimica Biophysica Acta 2001, 1522(2):130-133; pg 132, col 1, para 1; Fig 2 and 4	3

☐ Further documents are listed in the continuation of Box C.

* 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 application or patent 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

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 06/29449

Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☒ Claims Nos.: 27-29
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

Claims 27-29 are unsearchable because no valid CRF was filed in response to the ISA/225 of 19 September 2006.

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying additional fees, this Authority did not invite payment of additional fees.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- ☐ The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- ☐ No protest accompanied the payment of additional search fees.