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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: DESIGN OF ARTIFICIAL GENES FOR USE AS CONTROLS IN GENE EXPRESSION ANALYSIS SYSTEMS

(57) Abstract: Method of producing controls for use in gene expression analysis systems such as macroarrays, real-time PCR, northern blots, SAGE and microarrays. The controls are generated either from near-random sequence of DNA, or from inter- or intragenic regions of a genome. Ten specific control sequences are also disclosed. Also presented are methods of using these controls, including as negative controls, positive controls, and as calibrators of a gene expression analysis system.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/14575

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : C12Q 1/68  
US CL : 435/6, 320.1

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. : 435/6

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)  
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.
Y,P	BILBAN et al. Defining signal thresholds in DNA microarrays:exemplary applicatin for invasive cancer. Biomed Central.17 July 2002 (17.07.2002). Volume 3. page 8-10.	1-25
A	BEIBBARTH. T et al, Processign adn quality control of DNA array hybridization data.Bioinformatics. 2000, Vol 12, No, 11, pages 1014-1022.	1-25
Y, P	WO 01/42512 A2 (ARNOLD et al) 14 June 2001 (14.02.2001), page 8, line 9-page 9, line 8.	1-25
Y,P	US 2002/0110828A1 (FEREA et al.) 15 August 2002 (15.09.2002), page 4 [0050], page 5[0060],	1-25

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

☐ See patent family annex.

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"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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"&" document member of the same patent family

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## INTERNATIONAL SEARCH REPORT

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### **Continuation of B. FIELDS SEARCHED Item 3:**

STN databases CAPLUS, Medline

East databases- USPat, USPG-Pub, Derwent, EPO, JPO, IBM-IDB