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WO 2004/065573 A3

(54) Title: NOVEL HIGH THROUGHPUT METHOD OF GENERATING AND PURIFYING LABELED CRNA TARGETS FOR GENE EXPRESSION ANALYSIS

(57) Abstract: A method of generating substantially pure polynucleotides in a multiple-compartment container using a multiple-compartment purification filter is described. In particular, a method of generating cDNA or cRNA labeled with biotin for the ease of detection is described.

INTERNATIONAL SEARCH REPORT

Application No
/US2004/000538

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C12N15/10

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)
IPC 7 C12N C12Q

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 practical, search terms used)
EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	QIAGEN: "Qiaquick Multiwell PCR Purification Handbook" March 2001 (2001-03), QIAGEN , XP002288468	1,2,6
Y	page 7 - page 9	3-5,7-9
Y	JEREMY HASSEMAN: "Aminoallyl labeling of RNA for microarrays" INTERNET ARTICLE, 'Online! 3 April 2002 (2002-04-03), pages 1-8, XP002288466 Retrieved from the Internet: URL:http://web.archive.org/web/20040713090708/http://pga.tigr.org/sop/M004_1a.pdf> 'retrieved on 2004-08-10! the whole document	3-5,7-9

Further documents are listed in the continuation of box C. Patent family members are listed in 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
E earlier document but published on or after the international filing date	*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
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	*Z* document member of the same patent family
P document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 14 July 2004	Date of mailing of the international search report 05. 01. 05
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Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Schwachtgen, J-L
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INTERNATIONAL SEARCH REPORT

Application No

/US2004/000538

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>ANONYMOUS: "Protocol for Amino-allyl Reverse Transcription and NHS-Cy Dye Labeling" INTERNET ARTICLE, 'Online! 18 May 2002 (2002-05-18), XP002288467 Retrieved from the Internet: URL:http://web.archive.org/web/20020618004616/ubik.microbiol.washington.edu/protocols/arrays/aminoallylprobe.htm> 'retrieved on 2004-08-10! the whole document</p>	1-9
Y	<p>WO 02/02741 A (MARTON MATTHEW J ; ROSETTA INPHARMATICS INC (US); STOUGHTON ROLAND (US) 10 January 2002 (2002-01-10) page 73, line 1 - line 16</p>	1-9

INTERNATIONAL SEARCH REPORT

application No.
PCT/US2004/000538

Box 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.:
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:

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 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:

see additional sheet

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 an additional fee, this Authority did not invite payment of any additional fee.

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.:

1-9

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

A method of generating substantially pure cDNA in a multiple compartment container

2. claims: 10-18

A method of generating substantially pure cRNA in a multiple compartment container

3. claims: 19, 20

A method of generating fragmented and labeled genomic DNA in a multiple compartment container

INTERNATIONAL SEARCH REPORT

Information on patent family members

Application No
US2004/000538

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
WO 0202741	A	10-01-2002	AU	7172101 A	14-01-2002
			WO	0202741 A2	10-01-2002
