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(54) **Title:** METHODS, COMPOSITIONS, AND KITS FOR DETECTION OF MICRO RNA

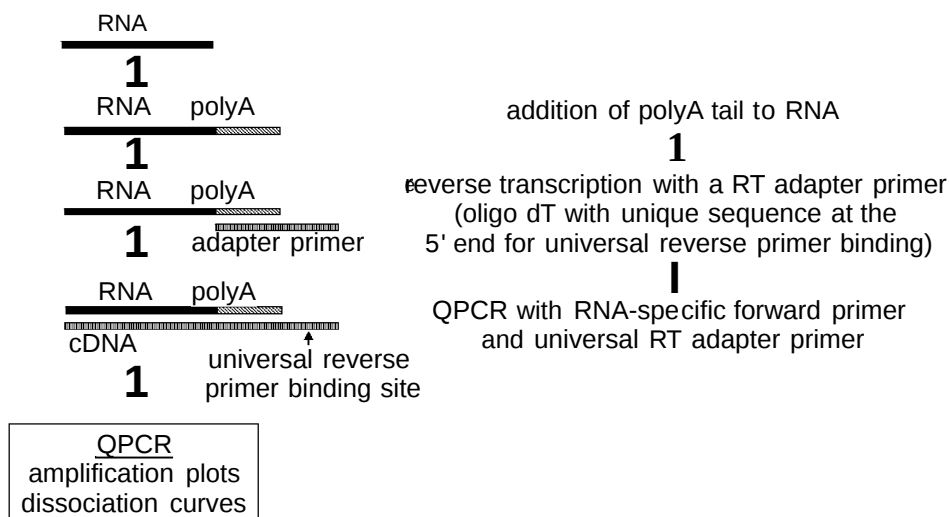


Figure 1.

(57) **Abstract:** The present invention provides methods, nucleic acids, compositions, and kits for detecting microRNA (miRNA) in samples. The methods comprise designing mRNA-specific primers, adding a polyA tail to the miRNA, and using reverse transcription and amplification to detect the miRNA. The nucleic acids, compositions, and kits typically comprise some or all of the components necessary to practice the methods of the invention.



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A. CLASSIFICATION OF SUBJECT MATTER*C12N 15/10(2006.01)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)

IPC 8 C12N 15/10

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility models since 1975

Japanese Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKIPASS (KIPO internal) "miRNA"

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	CHEN, C , et al 'Real-time quantification of microRNAs by stem-loop RT-PCR, Nucleic Acids Res , November 2005, VoI 33, No 20, page el79(l-9) See the abstract and the materials and methods part	1-20
A	US 2005-0272075 A1 (JACOBSEN, N , et al) 08 December 2005 See the entire document	1-20
A	US 2006-0051771 A1 (AMBION, INC) 09 March 2006 See the abstract and page 2, Rt column, line 5 - page 14, Lt column line 16	1-20
A	LU, S , et al 'Novel and Mechanical stress-responsive MicroRNAs in Populus trichocarpa that are absent from Arabidopsis', Plant Cell, August 2005, VoI 17, No 8, pp 2186-2203 See the entire document	1-20



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

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"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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"&" document member of the same patent family

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C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A	WANG, Y , et al 'MircoRNA past and present', Front Biosci , 01 January 2007, Vol 12, pp 2316-2329 See the entire document	1-20

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No

PCT/US2008/051932Patent document
cited in search reportPublication
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US 2005-0272075 A1

08 .12 .2005

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US 2006-0051771 A1

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EP 1786930 A2

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US 7361465

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