

METHOD FOR AMPLIFYING COMPLEMENTARY DNA STRAND

ABSTRACT

Disclosed is a cDNA amplification method capable of comprehensively
5 amplifying mRNA with a high efficiency and a low bias even from a very small
amount of cell sample. The method of amplifying a complementary DNA strand of
the present invention comprises steps of capturing a target RNA and synthesizing a
complementary DNA strand using a reverse transcriptase having terminal transferase
activity in a liquid-phase system or a solid-phase system such that bases such as CCC
10 are added to an end of the complementary DNA strand, and thereafter carrying out
homopolymer tailing by the TdT reaction in the presence of a chain-terminating
nucleotide triphosphate. By combination with a template-switching reaction, the
method enables amplification of the complementary DNA strand with a higher
efficiency and a lower bias.

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[FIG. 2]