

All-in-One™ miRNA qRT-PCR Detection Kit

The All-in-One™ miRNA qRT-PCR Detection Kit combines PCR technology and SYBR® Green to make fast and accurate quantitative analysis of mature human miRNAs from total RNA samples as small as **100 pg** possible.

Providing an **affordable** two-step detection and quantification method of multiple miRNAs from one cDNA synthesis, the All-in-One™ is easy and efficient.

A novel **optimized** blend of poly A polymerase and reverse transcriptase with an RT buffer that was specifically developed for the All-in-One RT Mix delivers maximum activity of both enzymes for robust and reproducible data.

When used with All-in-One **validated miRNA primers** the result is high-performance gene-expression profiling of more than **700** human miRNAs.

Advantages

- **Sensitive** — detect miRNA in 100 pg of RNA
- **Practical** — detect only mature miRNA
- **Compatible** — combine with All-in-One primers
- **Affordable** — fits most budgets easily

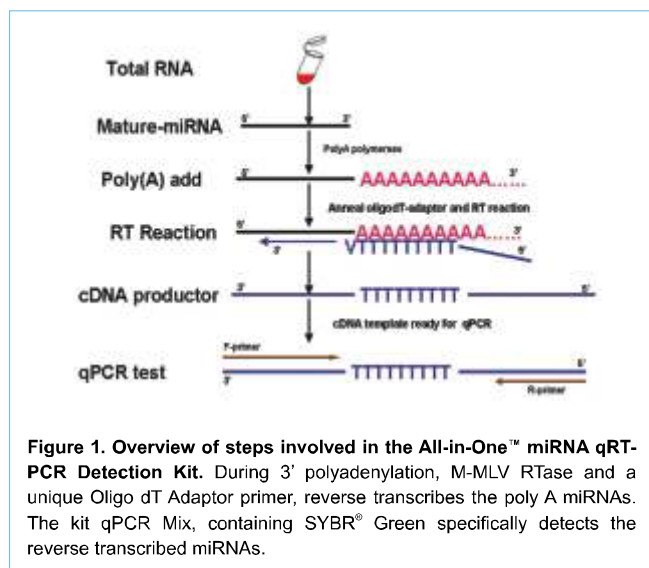


Figure 1. Overview of steps involved in the All-in-One™ miRNA qRT-PCR Detection Kit. During 3' polyadenylation, M-MLV RTase and a unique Oligo dT Adaptor primer, reverse transcribes the poly A miRNAs. The kit qPCR Mix, containing SYBR® Green specifically detects the reverse transcribed miRNAs.

Validated miRNA qPCR Primers

The All-in-One qPCR miRNA-specific primers are designed by a proprietary algorithm and validated for more than 700 human miRNAs.

When used in combination with the All-in-One SYBR® Green miRNA qRT-PCR kit, the All-in-One miRNA primers deliver reliable and reproducible high performance in quantitative PCR assays.

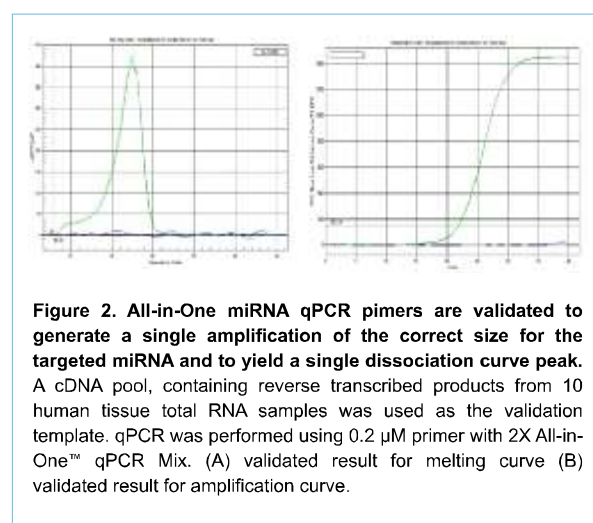


Figure 2. All-in-One miRNA qPCR primers are validated to generate a single amplification of the correct size for the targeted miRNA and to yield a single dissociation curve peak. A cDNA pool, containing reverse transcribed products from 10 human tissue total RNA samples was used as the validation template. qPCR was performed using 0.2 μM primer with 2X All-in-One™ qPCR Mix. (A) validated result for melting curve (B) validated result for amplification curve.

Combine these tools with GeneCopoeia miRNA plasmid constructs for comprehensive functional analysis studies.

- All-in-One miRNA qRT-PCR detection assays
- miExpress™ precursor miRNA expression clones
- miTarget miRNA target sequence 3' UTR clones

To order

Tel: 866-360-9531
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Catalog No.	Product	Size	Price
AOMD-Q020	All-in-One™ miRNA qRT-PCR detection kit	20 reactions	\$297
AOMD-Q050	All-in-One™ miRNA qRT-PCR detection kit	50 reactions	\$722