

# Simple and Sensitive RT-qPCR

## ZymoScript™ One-Step RT-qPCR Kit

Cat. No. R3014; 100 reactions per kit

### Product Description

The ZymoScript™ One-Step RT-qPCR Kit contains all the necessary components for fast reverse transcription and robust qPCR amplification in a single tube. The One-Step RT-qPCR kit is compatible with both SYBR Green and TaqMan probe-based assays for ultimate flexibility.

ZymoScript™ One-Step RT-qPCR Kit is the product of choice for simple and sensitive RT-qPCR and it is the ideal product to use as building block for RT-qPCR multiplex assays.

### Highlights

- Compatible with both SYBR-Green and TaqMan Probe-based RT-PCR assays
- Superior performance
- Reaction completion in as little as 1.5 hours
- Heat-activated enzymes to achieve ultimate specificity
- Contains blue tracking dye to help reaction set-up

### Components

Fluor Dye (100  $\mu$ l, 20X)

For SYBR Green based detection only!

Enzyme Mix (100  $\mu$ l, 20X)

Contains temperature-activated reverse transcriptase, hot-start DNA polymerase, and RNase inhibitor.

Reaction Buffer (500  $\mu$ l, 4X)

Contains necessary components (dNTPs, MgCl<sub>2</sub>, salts, additives) for optimal reverse transcription and qPCR in a single tube.

DNase/RNase-Free Water (1 ml)

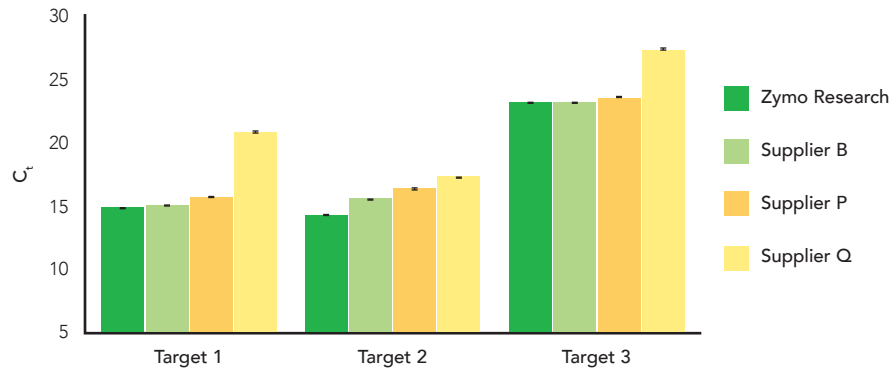
MgCl<sub>2</sub> (500  $\mu$ l, 25 mM)

Can be added to increase the magnesium concentration in the final reaction, if needed.



## Performance

Comparison with other RT-qPCR kits



Values are represented as mean (+/- SE) cycle threshold ( $C_t$ ) of 3 RT-qPCR technical replicates. Lower  $C_t$  values indicate more sensitive detection of target RNA transcripts.

## Example Workflow

RNA Extraction using *Quick-RNA™* or *Direct-zol™* RNA Kits



Cutting-edge RNA purification technology

RT-qPCR using the *ZymoScript™* One-Step RT-qPCR Kit



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Procedure	Product Name	Cat. No.	Size
Sample Collection	DNA/RNA Shield™	R1100/R1200	variable
RNA Extraction/Purification	<i>Quick-RNA™</i> Kits *Choose kit based on sample type	R1050-R1051/R1054-R1056	variable
	<i>Direct-zol™</i> RNA Kits *Column-based RNA extraction using TRIzol	R2050-R2053/R2060-R2063	variable
RNA Clean-Up	RNA Clean and Concentrator-5	R1013/R1017/R1019/R1081/R1080	variable
RT-qPCR	<i>ZymoScript™</i> One-Step RT-qPCR Kit	R3014	100 rxns