

TransScript® II Probe One-Step qRT-PCR SuperMix

Cat. No. AQ321

Storage: at -20°C for two years

Description

TransScript® II Probe One-Step qRT-PCR SuperMix is a one-step qRT-PCR kit with high sensitivity, high synthesis efficiency and high amplification efficiency. It contains all the necessary reagents for cDNA synthesis and qPCR except probe, total RNA/mRNA template and gene specific primers.

Highlights

- High specificity, high sensitivity, high efficiency.
- Easy and rapid, reducing contamination.
- Compatibility with various real-time cyclers with passive reference dyes provided for different qPCR instruments.

Applications

- Multiple copy and low copy gene detection
- GC-rich or complex secondary structure RNA template
- Viral RNA and trace RNA detection

Passive Reference Dye

- Passive Reference Dye I (50×)

ABI Prism 7000/7300/7700/7900, ABI Step One, ABI Step One Plus, ABI 7900HT, ABI 7900HT Fast

- Passive Reference Dye II (50×)

ABI Prism 7500, ABI Prism 7500 Fast, ABI QuantStudio Dx/3/5, ABI QuantStudio 6/7/12K Flex, ABI ViiA 7, Stratagene Mx3000P/Mx3005P/Mx4000

- No Passive Reference Dye

Roche LightCycler 480, Roche Light Cycler 96, MJ Research Chromo4, MJ Research Opticon 2, Takara TP-800, Bio-Rad iCycler iQ, Bio-Rad iCycler iQ5, Bio-Rad CFX96, Bio-Rad C1000 Thermal Cycler, Thermo Scientific Pikoreal 96, Qiagen Corbett Rotor-Gene 6000, Qiagen Corbett Rotor-Gene G, Qiagen Corbett Rotor-Gene Q, Qiagen Corbett Rotor-Gene 3000, Mastercycler ep realplex.

Kit Contents

Component	AQ321-01	AQ321-02
TransScript® II Probe One-Step RT/RI Enzyme Mix	40 µl	160 µl
2×PerfectStart™ Probe One-Step qPCR SuperMix	1 ml	4×1 ml
Passive Reference Dye (50×)	40 µl	160 µl
RNase-free Water	1 ml	4×1 ml

Reaction Components (20 µl)

Component	Volume	Final Concentration
RNA Template	1 pg-100 ng	as required
Forward GSP (10 µM)	0.4 µl	0.2 µM
Reverse GSP (10 µM)	0.4 µl	0.2 µM
Probe (1 µM)	1 µl	0.05 µM
2× <i>PerfectStart</i> TM Probe One-Step qPCR SuperMix	10 µl	1×
<i>TransScript</i> [®] II Probe One-Step RT/RI Enzyme Mix	0.4 µl	-
Passive Reference Dye (50×) (optional)	0.4 µl	1×
RNase-free Water	Variable	-
Total volume	20 µl	-

(The working concentration of the Probe will affect the Ct value. Please determine the optimum dosage of the Probe based on the experimental results.)

Thermal cycling conditions (two-step)

50°C 5 min

94°C 30 sec

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60°C 30 sec*

40-45 cycles

For ABI qPCR instrument, we suggest using the following exposure time:

- * For ABI Prism 7700/7900, the time to 30 seconds.
- * For ABI Prism 7000/7300, the time to 31 seconds.
- * For ABI Prism 7500, the time to 34 seconds.
- * For ABI ViiA 7, the time is at least 19 seconds.

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