



TransScript® Probe One-Step qRT-PCR SuperMix

Cat. No. AQ221

Storage: at -20°C for one year

Description

TransScript® Probe One-Step qRT-PCR SuperMix combines the firststrand cDNA synthesis and qPCR in the same tube to simplify reaction setup and reduce the possibility of contamination. Only gene specific primers can be used for this kit. *TransScript*® Probe One-Step qRT-PCR SuperMix contains all the necessary reagents for cDNA synthesis and qPCR except probe, total RNA/mRNA template and gene specific primers.

Highlights

- 5 minutes cDNA synthesis
- cDNA synthesis and qPCR are performed in a single tube using gene specific primers with total RNA or mRNA as templates.
- Passive reference dyes are provided for different qPCR instruments.

Applications

- Multiple copy and low copy gene detection
- 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®
- Passive Reference Dye II (50×)
ABI Prism® 7500, ABI Prism® 7500 Fast, ABI Q6, ABI QuantStudio® 6/7 Flex, ABI ViiA® 7, Stratagene Mx3000® /Mx3005P®, Qiagen Corbett Rotor-Gene® 3000
- 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

Kit Contents

Component	AQ221-01	AQ221-02
<i>TransScript</i> ® One-Step RT/RI Enzyme Mix	40 µl	160 µl
<i>TransStart</i> ® Probe qPCR SuperMix (2×)	1 ml	4×1 ml
Passive Reference Dye (50×)	40 µl	160 µl
RNase-free Water	1 ml	4×1 ml

Reaction Components (20 μ l)

Component	Volume	Final Concentration
RNA Template	Variable	as required
Forward GSP (10 μ M)	0.4 μ l	0.2 μ M
Reverse GSP (10 μ M)	0.4 μ l	0.2 μ M
Probe (10 μ M)	0.4 μ l	0.2 μ M
2 \times TransStart [®] Probe qPCR SuperMix	10 μ l	1 \times
TransScript [®] One-Step RT/R1 Enzyme Mix	0.4 μ l	-
Passive Reference Dye (50 \times) (optional)	0.4 μ l	1 \times
RNase-free Water	Variable	-
Total volume	20 μ l	-

(For genomic DNA template, the suggested quality is 10 pg~1 μ g. For plasmid DNA template, the suggested copy number is 10~10⁷)

Thermal cycling conditions (two-step)

45°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 signal collecting 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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