



# TransScript® Green Two-Step qRT-PCR SuperMix

Cat. No. AQ201

Storage: at -20°C in dark for one year

## Description

TransScript® Green Two-Step qRT-PCR SuperMix contains all the necessary reagents for gDNA removal, cDNA synthesis and qPCR.

## Highlights

- gDNA remover and 5×TransScript® All-in-One SuperMix for qPCR are provided for simultaneous gDNA removal and cDNA synthesis.
- TransStart® Tip Green qPCR SuperMix is provided for qPCR.
- 5×TransScript® All-in-One No-RT Control SuperMix for qPCR is provided for experimental control.
- Passive reference dyes are provided for different qPCR instruments.

## Application

Multiple copy and low copy gene 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	AQ201-01
5×TransScript® All-in-One SuperMix for qPCR	200 µl
5×TransScript® All-in-One No-RT Control SuperMix for qPCR	20 µl
gDNA Remover	50 µl
TransStart® Tip Green qPCR SuperMix (2×)	3×1 ml
Passive Reference Dye (50×)	120 µl
RNase-free Water	1 ml

### First-Strand cDNA Synthesis

#### 1. Reaction Components

Component	Volume
Total RNA/mRNA	≤1 µg / ≤100 ng
5× <i>TransScript</i> <sup>®</sup> All-in-One SuperMix for qPCR	4 µl
gDNA Remover	1 µl
RNase-free Water	to 20 µl

2. Incubate at 42°C for 15 minutes.

3. Incubate at 85°C for 5 seconds to inactivate enzymes.

#### Reaction Components (20 µl reaction volume)

Component	Volume	Final Concentration
Template	Variable	as required
Forward Primer (10 µM)	0.4 µl	0.2 µM
Reverse Primer (10 µM)	0.4 µl	0.2 µM
2× <i>TransStart</i> <sup>®</sup> Tip Green qPCR SuperMix	10 µl	1×
Passive Reference Dye (50×) (optional)	0.4 µl	1×
ddH <sub>2</sub> O	Variable	-
Total Volume	20 µl	-

#### Thermal cycling conditions (three-step)

94°C 30 sec

94°C 5 sec

50-60°C 15 sec\*

72°C 10 sec\*

40-45 cycles

Dissociation Stage

#### Thermal cycling conditions (two-step)

94°C 30 sec

94°C 5 sec

60°C 30 sec\*

40-45 cycles

Dissociation Stage

Fluorescent signals can be collected during the annealing or extension stage. For ABI qPCR instrument, we suggest using the following signal collecting time:

\* For ABI Prism<sup>®</sup> 7700/7900, the time to 30 seconds.

\* For ABI Prism<sup>®</sup> 7000/7300, the time to 31 seconds.

\* For ABI Prism<sup>®</sup> 7500, the time to 34 seconds.

\* For ABI ViiA<sup>®</sup> 7, the time is at least 19 seconds.

Two-step qPCR is more suitable for higher specificity assay.

Three-step qPCR is more suitable for higher sensitivity assay.

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