

TransStart® Probe qPCR SuperMix

Cat. No. AQ401

Storage: at -20°C for one year

Description

TransStart® Probe qPCR SuperMix is a ready-to-use qPCR cocktail containing all components, except probe, primer and template. It contains TransStart® Taq DNA Polymerase, dNTPs, PCR enhancer and stabilizer. qPCR SuperMix is provided at 2× concentration and can be used at 1× concentration by adding template, primer, probe, passive reference dye (optional) and ddH₂O.

Highlights

- TransStart® Taq DNA Polymerase, hot start with double blocking technique, improves sensitivity, enhances specificity and generates more accurate data.
- Double cation (K⁺, NH₄⁺) buffer enhances specificity and reduces primer-dimer formation.
- Passive reference dyes are provided for different qPCR instruments.

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	AQ401-01	AQ401-02	AQ401-03
2×TransStart® Probe qPCR SuperMix	1 ml	5×1 ml	15×1 ml
Passive Reference Dye (50×)	40 µl	200 µl	600 µl
ddH ₂ O	1 ml	5 ml	3×5 ml

Reaction Components (20 µl)

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
Probe	0.4 µl	1×
2×TransStart® Probe qPCR SuperMix	10 µl	-
Passive Reference Dye (50×) (optional)	0.4 µl	1×
ddH ₂ O	Variable	-
Total volume	20 µl	-

For genomic DNA, we suggest using 1 pg-1 µg template; for plasmid DNA, we suggest using 10-10⁷ copies.



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Products For Life Sciences

Thermal cycling conditions (two-step)

94°C 30 sec

94°C 5 sec

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.

Note

Completely thaw the contents in the tube and mix well before each use.

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