

TransStart® Tip Green qPCR SuperMix

Cat. No. AQ141

Storage: at -20°C in dark for two years

Description

TransStart® Tip Green qPCR SuperMix is a ready-to-use qPCR cocktail. It contains a novel TransStart® TipTaq DNA Polymerase, unique hot start reagents (DNA binding proteins combined with unique chemical), optimized double cation buffer, EvaGreen I, dNTPs, PCR Enhancerm and PCR stabilizer. qPCR SuperMix is provided at 2× concentration and can be used at 1× concentration by adding template, primer, passive reference dye (optional) and Nuclease-free Water.

Highlights

- A combination of chemical blocking technique with TransStart® hot start technique to achieve complete blocking. Compared with double blocking TransStart® TopTaq, this method provides higher sensitivity, higher specificity, better amplification.
- Double cation (K^+ , NH_4^+) 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, 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	AQ141-01	AQ141-02	AQ141-03	AQ141-04
2×TransStart® Tip Green qPCR SuperMix	1 ml	5×1 ml	15×1 ml	25×1 ml
Passive Reference Dye (50×)	40 µl	200 µl	600 µl	1 ml
Nuclease-free Water	1 ml	5 ml	3×5 ml	5×5 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
2×TransStart® Tip Green qPCR SuperMix	10 µl	1×
Passive Reference Dye (50×) (optional)	0.4 µl	1×
Nuclease-free Water	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.



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® 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.

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

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

Note

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

For research use only, not for clinical diagnosis.

Service telephone +86-10-57815020

Service email complaints@transgen.com

