

TransStart® Top Green qPCR SuperMix (+Dye I/ +Dye II)

Cat. No. AQ132

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

Description

TransStart® Top Green qPCR SuperMix is a ready-to-use qPCR cocktail containing all components, except primer and template. It contains TransStart® TopTaq DNA Polymerase, SYBR Green I, dNTPs, PCR enhancer, PCR stabilizer and Passive Reference Dye I/II. qPCR SuperMix is provided at 2× concentration and can be used at 1× concentration by adding template, primer and Nuclease-free Water.

Highlights

- TransStart® TopTaq DNA Polymerase, hot start with double blocking technique, improves sensitivity, enhances specificity and generates more accurate data.
- Double cation (K^+ , NH_4^+) buffer enhances specificity and reduces primer-dimer formation.

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

Kit Contents

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® Top Green qPCR SuperMix (+Dye I/+Dye II)	10 μl	1×
Nuclease-free Water	Variable	-
Total Volume	20 μl	-

Reaction Components (20 μl)

Component	AQ132-11/21	AQ132-12/22	AQ132-13/23	AQ132-14/24
2×TransStart® Top Green qPCR SuperMix(+Dye I/+Dye II)	1 ml	5×1 ml	15×1 ml	25×1 ml
Nuclease-free Water	1 ml	5 ml	3×5 ml	5×5 ml

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	} 40-45 cycles
94°C	5 sec	
50-60°C	15 sec*	
72°C	10 sec*	

Dissociation Stage

Thermal cycling conditions (two-step)

94°C	30 sec	} 40-45 cycles
94°C	5 sec	
60°C	30 sec*	

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.

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