AllScript Green qPCR SuperMix UDG

Cat. No. ABTGMBR312

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

Description

AllScript Green qPCR SuperMix UDG is a ready-to-use qPCR cocktail containing all components, except primer and template. It contains AllScript Taq DNA Polymerase, UDG, SYBR Green I, dNTPs, PCR enhancer and stabilizer. qPCR SuperMix is provided at 2× concentration and can be used at 1× concentration by adding template, primer, passive reference dye (optional) and ddH_2O.

Highlights

- AllScript Taq 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 dyes are provided for different qPCR instruments.
- UDG and dUTP avoid cross contamination.

Passive Reference Dye

- Passive Reference Dye I (50×)
  ABI Prism7000/7300/7700/7900, Eppendorf, ABI Step One, ABI Step One Plus
- Passive Reference Dye II (50×)
  ABI Prism7500, ABI Prism7500 Fast, ABI Q6, ABI Quant Studio 6/7 Flex, ABI ViiA 7, Stratagene Mx3000/Mx3005P, Corbett Rotor Gene 3000
- No Passive Reference Dye
  Roche LightCycler480, Roche Light Cycler96, MJ Research Chromo4, Opticon (II), Takara TP800, Bio-Rad iCycler iQ, iQ5,Bio-Rad CFX96, Bio-Rad C1000 Thermal Cycler, Thermo Pikoreal 96, Corbett Rotor Gene 6000, Corbett Rotor Gene G, Corbett Rotor Gene Q

Kit Contents

Component	1 rxns	5 rxns	15 rxns
AllScript Green qPCR SuperMix UDG (2×)	1 ml	5x1 ml	15x1 ml
Passive Reference Dye (50×)	40 µl	200 µl	600 µl

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×AllScript Green qPCR SuperMix UDG	10 µl	1×
Passive Reference Dye (50×) (optional)	0.4 µl	1×
ddH_2O	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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Thermal cycling conditions (three-step)

50°C	2 min	(UDG Incubation)
94°C	10 min	(UDG Inactivation)
94°C	5 sec	40~45 cycles
50~60°C	15 sec*	
72°C	10 sec*	
Dissociation Stage	5~10 min	

Thermal cycling conditions (two-step)

50°C	2 min	(UDG Incubation)
94°C	10 min	(UDG Inactivation)
94°C	5 sec	40~45 cycles
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 Prism7700/7900, the time is 30 seconds.
* For ABI Prism7000/7300, the time is 31 seconds.
* For ABI Prism7500, the time is 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.