

HiScript-TS 2 × PCR Mix

RA103

Version 23.1



Product Description

HiScript-TS 2 × PCR Mix is a dedicated reagent for HiScript-TS 5'/3' RACE Kit (Vazyme #RA101), suitable for 5'/3' RACE amplification. This product is the 2 × PCR Mix of HiScript-TS 5'/3' RACE Kit (Vazyme #RA101). The reagents provided in the kit have undergone strict quality control and functional verification to ensure the stability of the results to the greatest extent.

Components

Components	RA103-01 (40 rxns)	RA103-02 (200 rxns)
■ HiScript-TS 2 × PCR Mix*	1 ml	5 × 1 ml

▲ The color marked in the product component table represents the color of the component lid.

* HiScript-TS 2 × PCR Mix is the 2 × PCR Mix in RA101.

Storage

Store at -30 ~ -15°C and transport at ≤0°C.

Applications

HiScript-TS 5'/3' RACE Kit (Vazyme #RA101) dedicated cDNA ends rapid amplification reagent.

Notes

For research use only. Not for use in diagnostic procedures.

HiScript-TS 5'/3' RACE Kit (Vazyme #RA101) dedicated cDNA ends rapid amplification reagent.

1. This product can only be used with HiScript-TS 5'/3' RACE Kit (Vazyme #RA101);
2. This product is the 2 × PCR Mix of HiScript-TS 5'/3' RACE Kit (Vazyme #RA101).

Experiment Process

Rapid Amplification of cDNA ends (RACE)

1. Follow the table below to prepare the PCR reaction system:

5' RACE Amplification:

Components	5' RACE	UPM single primer control (optional)	GSP single primer control (optional)
5' RACE-Ready cDNA	2.5 μl	2.5 μl	2.5 μl
5' GSP(10 μM)	1 μl	0 μl	1 μl
10 × Universal Primer Mix(UPM)	5 μl	5 μl	0 μl
HiScript-TS 2 × PCR Mix*	25 μl	25 μl	25 μl
ddH ₂ O	16.5 μl	17.5 μl	21.5 μl
Total	50 μl	50 μl	50 μl

▲ The use of UPM/GSP single primer control helps to distinguish nonspecific amplified background products.

* HiScript-TS 2 × PCR Mix is the 2 × PCR Mix in RA101.

Gently pipette up and down several times to mix thoroughly, then centrifuge it briefly to the bottom of the tube.



3' RACE Amplification:

Components	3' RACE	UPM single primer control (optional)	GSP single primer control (optional)
3' RACE-Ready cDNA	2.5 µl	2.5 µl	2.5 µl
3' GSP(10 µM)	1 µl	0 µl	1 µl
10 × Universal Primer Mix(UPM)	5 µl	5 µl	0 µl
HiScript-TS 2 × PCR Mix*	25 µl	25 µl	25 µl
ddH ₂ O	16.5 µl	17.5 µl	21.5 µl
Total	50 µl	50 µl	50 µl

▲ The use of UPM/GSP single primer control helps to distinguish nonspecific amplified background products.

* HiScript-TS 2 × PCR Mix is the 2 × PCR Mix in RA101.

Gently pipette up and down several times to mix thoroughly, then centrifuge it briefly to the bottom of the tube.

2. PCR Program

▲ If the T_m of GSP is >70°C, use the following PCR program I:

Temperature	Time	Cycles
98°C	1 min	
98°C	10 sec	5
72°C	3 min ^a	
98°C	10 sec	
70°C	15 sec	5
72°C	3 min ^a	
98°C	10 sec	
68°C	15 sec	20 (Poly A ⁺ RNA) or 25 (Total RNA) ^b
72°C	3 min ^a	
72°C	5 min	
4°C	Hold	

a. If the amplified fragment is ≤3 kb, the extension time can be set to 3 min; if the amplified fragment is >3 kb, the extension time will be extended by 30 sec for each additional 1 kb.

b. If the amplification product band is weak, the number of cycles in the final amplification stage can be appropriately increased.

▲ If the T_m of GSP is between 60 ~ 70°C, use the following PCR program II:

Temperature	Time	Cycles
98°C	1 min	
98°C	10 sec	20 (Poly A ⁺ RNA) or 25 (Total RNA) ^b
68°C	15 sec	
72°C	3 min ^a	
72°C	5 min	
4°C	Hold	

a. If the amplified fragment is ≤3 kb, the extension time can be set to 3 min; if the amplified fragment is >3 kb, the extension time will be extended by 30 sec for each additional 1 kb.

b. If the amplification product band is weak, the number of cycles in the final amplification stage can be appropriately increased.

