

HelixCRIPT™ One-Step RT-PCR Kit [Ab⁺-Taq]

Kit Contents

HelixCRIPT™ One-Step RT-PCR Kit [Ab ⁺ -Taq]		
Cat. No.	ORTA100 (100 rxns)	ORTA500 (500 rxns)
Enzyme Mix [Ab ⁺ -Taq]	0.2 ml	0.2 ml x 5ea
2x Reaction Mix [Ab ⁺ -Taq]	1.25 ml x 2ea	1.25 ml x 10ea
Instruction for Use	1ea	1ea

Description

HelixCRIPT™ One-Step RT-PCR Kit is designed for sensitive amplification of the target gene in one-tube reaction from total transcripts. A reverse transcriptase, HelixCRIPT™ *Thermo* Reverse Transcriptase, and a thermostable DNA polymerase, HelixAmp™ *HyperSense-Taq* polymerase, HelixAmp™ *Speed-Pfu* polymerase, HelixAmp™ *Ab⁺-Taq* polymerase or HelixAmp™ *Hot-Taq* polymerase are supplied as an enzyme mixture. You can choose one of the enzymes according to your purpose.

HelixCRIPT™ One-Step RT-PCR Kit [Ab⁺-Taq]

: High specific and sensitive RT-PCR

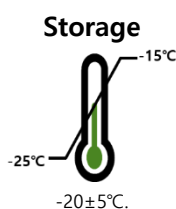
One-step RT-PCR system provide the several advantages.

- Synthesis of cDNA and PCR amplification corresponding to target gene in one-tube reaction
- Obtain the reproductive data in the repetitive experiment(s)
- Can save the time and cost for preparation of RT-PCR
- Amplification of low-copy transcripts by RT-PCR

Application

Detection of target gene transcript from RNA

Semi-quantitative, quantitative analysis of RNA transcription level



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Quality control assay data

Functional analysis

The activity for cDNA synthesis and PCR amplification of target gene transcript using HelixCRIPT™ One-Step RT-PCR Kit was evaluated by Limit-of Detection (LOD) assay and long range of gene constitutively-expressed in human total transcripts.

Quality authorized by Yountaek Go



Protocol

1. Program the thermal cycler as follows in order to synthesize cDNA using HelixCRIPT™ One-Step RT-PCR Kit with HelixAmp™ *Ab⁺-Taq*.

cDNA Synthesis and Pre-denaturation (1 cycle)
50 min at 42 ~ 55°C
2 ~ 5 min at 95°C
PCR Amplification (30 ~ 40 cycles)
Denaturation : 20 sec at 95°C
Primer Annealing : 40 sec at AT°C
Extension : 1 min/kb at 72°C
Post extension (1 cycle)
5 min at 72°C

2. Add the following components into 0.2 or 0.5 ml micro-tube.

Components	Volumes
2x Reaction Mix [Ab ⁺ -Taq]	25 µl
RNA Template (1 ng ~ 5 µg)	X µl
Forward primer (10 pmoles/µl)	2 µl
Reverse primer (10 pmoles/µl)	2 µl
<i>Thermo RT / Ab⁺-Taq</i> DNA polymerase enzyme mix	2 µl
RNase-free Water	to 50 µl

※ RNAs : total RNA : 10 ng ~ 5 µg, Poly(A)⁺ RNA : 1 ng ~ 500 ng

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3. Gently mix and immediately centrifuge the reaction mix.
4. Perform the one-step RT-PCR.

Products

Cat. No.	Products	Size
ORTA100	HelixCript™ One-Step RT-PCR Kit [Ab ⁺ -Taq]	100 rxns
ORTA500	HelixCript™ One-Step RT-PCR Kit [Ab ⁺ -Taq]	500 rxns

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