

**QuickEasy™**  
**Cell Direct RT-qPCR Kit**  
**-SYBR Green I**



# PRODUCT INTRODUCTION



# FOREGENE

## QuickEasy™ Cell Direct RT qPCR Kit

200×20μl Rxns, 1000×20μl Rxns

This kit uses a unique lysis buffer system that can quickly release RNA from cultured cell samples for RT-qPCR reactions, thereby eliminating the time-consuming and laborious RNA purification process. The RNA template can be obtained in just 7 minutes. The 5×Direct RT Mix and 2×Direct qPCR Mix-SYBR reagents provided by the kit can quickly and effectively obtain real-time quantitative PCR results.

5×Direct RT Mix and 2×Direct qPCR Mix-SYBR have strong inhibitor tolerance, and the lysate of the samples can be used as the template for RT-qPCR directly. This kit contains the unique RNA high-affinity Foregene reverse transcriptase, and Hot D-Taq DNA polymerase, dNTPs, MgCl<sub>2</sub>, reaction buffer, PCR optimizer and stabilizer.



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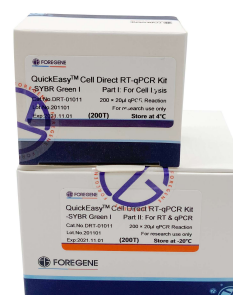
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## QuickEasy™ Cell Direct RT qPCR Kit

200×20μl Rxns, 1000×20μl Rxns



### Product components

- ◆ Buffer CL
- ◆ Foregene Protease Plus II
- ◆ Buffer ST
- ◆ DNA Eraser
- ◆ 2× Direct qPCR Mix-SYBR
- ◆ RNase-Free ddH<sub>2</sub>O
- ◆ Instructions
- ◆ 5× Direct RT Mix
- ◆ 50× ROX Reference Dye

### Ordering information

Product Name	Ref No.	Specifications	Description
QuickEasy™ Cell Direct RT-qPCR Kit–SYBR Green I	DRT-01011	200 T	Cells are lysed directly to release RNA for RT-qPCR; the high tolerance system makes it unnecessary to purify RNA and directly use cell lysates as RNA templates for RT reactions
	DRT-01012	1000 T	

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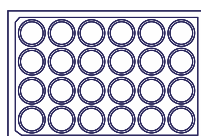


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## Operation process

### Step 1: Cell Lysis

RT reaction template preparation



Take the 24-well plate cell culture as an example

Cell washing: Tilt the cell culture plate, remove the cell culture medium with pipette.  
Add 200ul of pre-cooled PBS to wash the cells. Remove PBS  
Cell lysis: add 200ul pre-mixed cell lysis buffer. Repeated pipetting 5-10 times, incubate at room temperature (20-25°C) for 5min  
Stop lysis: add 200u Buffer ST, pipet repeatedly 5-10 times, incubate at room temperature (20-25°C) for 2min

5×Direct RT Mix  
RNase-Free ddH<sub>2</sub>O

Cell lysate

### Step 2: Direct RT Reaction

Direct RT System

2×Direct qPCR Mix-SYBR  
Specific Primers  
50×ROX Reference Dye

RNase-Free ddH<sub>2</sub>O

RT reaction conditions  
cDNA Synthesis: 42°C; 15-30 min  
Inactivation: 95°C; 5min

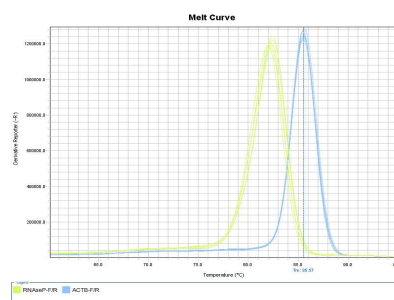
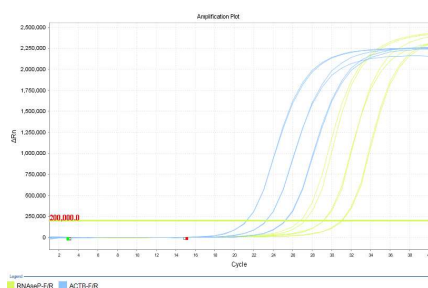


### Step 3: qPCR Reaction

qPCR System



\*Diagram



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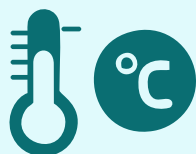


# FOREGENE

## Features&advantages

- △ Simple and effective : with Cell Direct RT technology, RNA samples can be obtained in just 7 minutes.
- △ The sample demand is small, as low as 10 cells can be tested.
- △ High throughput: it can quickly detect RNA in cells cultured in 384, 96, 24, 12, 6-well plates.
- △ DNA Eraser can quickly remove released genomes, greatly reduce the impact on subsequent experimental results.
- △ Optimized RT and qPCR system makes the two-step RT-PCR reverse transcription more efficient and PCR more specific, and more resistant to RT-qPCR reaction inhibitors.

## Preservation conditions



- Part I of this kit should be stored at 4°C; Part II should be stored at -20°C.
- Foregene Protease Plus II should be stored at 4°C, do not freeze at -20°C.
- Reagent 2×Direct qPCR Mix-SYBR should be stored at -20°C in the dark; if used frequently, it can also be stored at 4°C for short-term storage (use up within 10 days).

## Product application

### \* QuickEasy™ Cell Direct RT qPCR Kit:

- Scope of application: cultured cells.
- RNA released by sample lysis: only applicable to the RT-qPCR template of this kit.
- The kit can be used for the following purposes: gene expression analysis, verification of siRNA-mediated gene silencing effect, drug screening, etc.

# COMPANY PROFILE



# FOREGENE

Foregene is specialized in the IVD kits and the lab reagents products ,which is integrated in R&D, manufacturing and marketing together. Foregene has the world's leading Direct PCR platform. The main products include various IVD kits, nucleic acid purification reagents, PCR and Direct PCR reagents, Genotyping kits, etc. The technology and product performance indicators used are all leading the world status, widely applied in hospitals, institutions, medical laboratories, etc.



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