

Related Products



Product Group	Cat #	Size	PCR Instrument
First strand cDNA Synthesis			
CellScript cDNA Master Mix	CDS -50 CDS-100 CDS-200 CDS-400	50Rxn 100 Rxn 200 Rxn 400 Rxn	All Machines
SybrGreen realtime PCR Master Mix (One Step and Two Steps)			
QGreen (no ROX) Master Mix	QG-05	5ml	BioRad: CFX-96, FX-384, MJ Opticon, Option2, Chromo4, MiniOpticon Qiagen: Roto-Gene Q, Roto-Gene3000, Roto-Gene 6000 Eppendorf: Mastercycler realplex Illumina: Eco RealTime PCR System Roche: LightCycler 480, LightCycler 2.0
QGreenBlue (Low ROX) Master Mix	QBLR-05		
CellScript RT-QGreen Master Mix	RTQG-05		
CellScript (Low ROX) RT-QGreenBlue Master Mix	RTQBLR-05		
QGreen (Low ROX) Master Mix	QGLR-05	5ml	ABI: 7500, 7500 Fast, QuantStudio series, Stratagene: MX4000P, MX3000P, MX3005P
QGreenBlue (Low ROX) Master Mix	QBLR-05		
CellScript RT-QGreen Master Mix	RTQG-05		
CellScript (Low ROX) RT-QGreenBlue Master Mix	RTQBLR-05		
QGreen (High ROX) Master Mix	QGHR-05	5ml	ABI: 5700, 7000, 7300, 7700, 7900, 7900HT, 7900HT Fast, StepOne, StepOne plus
QGreenBlue (High ROX) Master Mix	QBHR-05		
CellScript RT-QGreen Master Mix	RTQG-05		
CellScript (High ROX) RT-QGreenBlue Master Mix	RTQBHR-05		
Taqman probe realtime PCR Master Mix (One Step and Two Steps)			
QPLEX RT-qPCR Master Mix	QP-05	5ml	All Machines (For Multiplex TaqMan assay)
QRTPLEX RT-qPCR Master Mix	RTQP-01	1ml	All Machines (For Multiplex TaqMan assay)

CellScript™ **2X One Step RT-PCR Premix**

Instruction Manual

Cat. No. RTPP-96 and RTPP-480

2X One Step RT-PCR Premix

Product Descriptions

2X One-Step RT-PCR Premix offers a single-step procedure for performing RT-PCR reactions. Subsequent loading and visualization of RT-PCR products are streamlined since the loading dye are included. The user supplies the primers and DNase-treated template RNA.

2X One-Step RT-PCR Premix contains all necessary reagents for PCR amplification to occur in a single reaction tube. Specifically, this One-Step RT-PCR Premix contains special reaction buffer, RTase Inhibitor, dNTPs and DNA-free Taq DNA Polymerase for highly sensitive and specific RT-PCR using any RNA template. The special RT-PCR buffer contains stabilizers and enhancers that optimize the two reactions in a “single step”.

The **2X One-Step RT-PCR Premix** offers the end-users an efficient, easy to use and reliable alternative to conventional “two-step” sequential RT-PCR.

Storage and Stability

This kit is shipped in a package containing dry ice.
For long-term storage, keep it at -20°C.

Materials Provided

Materials Provided	Quantity (for 20ul reaction)	
	50rxn	100rxn
one step RT-PCR Premix	96 wells	480 wells

2X One Step RT-PCR Premix Protocol

Preparing for One Step RT-PCR Reaction

1. Centrifuge briefly the strip
2. Prepare a reaction mix by adding the following components (except template RNA) for each 20 µl reaction to a tube at ice.

2X One-Step RT-PCR Premix	10 µl
Forward Primer*, 10pM	1ul
Reverse Primer, 10pM	1ul
Template RNA	≤500 ng
Water, nuclease-free	Up to 20ul

* An optimal primer concentration may be optimized in a range of 0.05 µM to 0.9 µM.

3. Centrifuge briefly.
4. Program the thermal cycler according to the recommendations below, place the samples in the cycler and start the program.

Thermal cycling condition

Step	Temperature, °C	Time	Number of cycles
Reverse Transcription	42~50	30min	1
Pre-denaturation	95	1 min	1
Denaturation	95	5 sec	30~40
Annealing	55~65	10 ~30 sec*	
extension	72	0.5~1min/kb*	
*An optimal time may be optimized depending on amplicon size.			