

SuPrimeScript RT-PCR Kit SuPrimeScript RT-PCR Premix (2X)

Product Name	Cat. No.	Size
SuPrimeScript RT-PCR Kit	SR-6000	50 rxn [*] X 1
	SR-6001	50 rxn [*] X 2
	SR-6002	50 rxn [*] X 4
SuPrimeScript RT-PCR Premix (2X)	SR-7000	1.0 ml X 1
	SR-7001	1.0 ml X 3
	SR-7002	1.0 ml X 5
SuPrimeScript RT-PCR Premix (2X, 8-strip)	SR-8000	96 tube X 1
	SR-8001	96 tube X 3
	SR-8002	96 tube X 5

* For 50 X 50 µl reaction

Package information

SR-6000	Enzyme Solution (250# X 1) - with SuPrimeScript RTase, HS Prime Taq DNA Polymerase and RNase Inhibitor
	2X Reaction Buffer (1.5 ml X 1)
	 with reaction buffer, dNTPs mixture and loading dye
	2X SuPrimeScript RT-PCR Premix (1.0 ml X 1)
SR-7000	- with SuPrimeScript RTase, HS Prime Taq DNA Polymersae,
	RNase Inhibitor , reaction Buffer, enzyme stabilizer, dNTPs
	mixture and loading dye
	2X SuPrimeScript RT-PCR Premix 10 🖉 in 0.2ml 8-strip PCR
SR-8000	tube (96 tube X 1)
	- with SuPrimeScript RTase, HS Prime Tag DNA Polymersae,
	RNase Inhibitor , reaction Buffer, enzyme stabilizer, dNTPs
	mixture and loading dye

Description

SuPrimeScript RT-PCR Kit and RT-PCR Premix provides a complete system for fast, high-yield and reliable single tube one-step RT-PCR.

Usage Information

Research Use Only
 Store at -20°C

- The reaction temperature for cDNA synthesis is 50°C.
- The reaction time for cDNA synthesis is **30 min**.
- In SuPrimeScript RT-PCR Kit, the concentration of Reaction Buffer is 2X.
- SuPrimeScript RTase is RNase H⁻.
- SuPrimeScript RT-PCR Kit and RT-PCR Premix contains HS Prime Taq DNA Polymerase (hot-start Taq DNA Polymerase).

Protocol

The following 20μ reaction volume can be used for one-step RT-PCR.

1.	Prepare the following components to a PCR tube.
•	SuPrimeScript RT-PCR Kit

	Components	Volume	Volume
RNase-free water		add up to	add up to
		20 <i>µ</i> l	50 <i>µ</i> l
Primer	Upstream Primer (10 pmoles/ µl)	1 <i>µl</i>	2.5µl
	Downstream Primer (10 pmoles/ µl)	1 <i>µl</i>	2.5µl
RNA	- Total RNA (1 ng~500 ng) - mRNA (0.1 ng~50 ng)	×μl	×μl
2X Reaction Buffer		10 <i>µ</i> l	25 <i>µ</i> l
Enzyme Solution		2 µl	5 <i>µ</i> l

 $\rightarrow\,$ Mix by pipetting gently up and down. Centrifuge briefly to collect residual liquid from the wall of the tube.

• SuPrimeScript RT-PCR Premix (2X)

	Components	Volume
	RNase-free water	add up to 20µl
Primer	Upstream Primer (10 pmoles/µl)	1 µl
	Downstream Primer (10 pmoles/µl)	1 µl
RNA	- Total RNA (1 ng~500 ng)	X 40
	- mRNA (0.1 ng~50 ng)	×μι
2X SuPrimeScript RT-PCR Premix		10/1

- In case 8-strip PCR tube type product that SR-8000, add the Primer, RNA and RNase-free water to 8-strip PCR tube that contain RT-PCR Premix 10µl.

→ Mix by pipetting gently up and down. Centrifuge briefly to collect residual liquid from the wall of the tube.

2.	PCR	cyc	ling

Stop	Temp. & Time		Cyclos
Step	Temp.	Time	Cycles
cDNA synthesis	50°C	30 min	1
Initial denaturation	95℃	5 min	1
Denaturation	95℃	30 sec	
Annealing	х°С	30 sec	30 ~ 40
Extension	72℃	1 min/kb	
Final Extension	72℃	5 min	1

3. Separate the PCR products by agarose gel electrophoresis and visualize with EtBr or any other means.