

SuPrimeScript qRT-PCR Premix (2X, Real-time PCR for TaqMan Probe)

Product Name	Cat. No.	Size
SuPrimeScript qRT-PCR Premix (2X)	Q-6000	1.0 ml X 1
	Q-6001	1.0 ml X 3
	Q-6002	1.0 ml X 5
SuPrimeScript qRT-PCR Premix (2X, ROX dye)	Q-6100	1.0 ml X 1
	Q-6101	1.0 ml X 3
	Q-6102	1.0 ml X 5

Package information

Q-6000	2X SuPrimeScript qRT-PCR Premix (1.0 ml X 1) - with SuPrimeScript RTase, HS Prime Taq DNA Polymerase, RNase Inhibitor, reaction Buffer, enzyme stabilizer and dNTPs mixture
Q-6100	2X SuPrimeScript qRT-PCR Premix (1.0 ml X 1) - with SuPrimeScript RTase, HS Prime Taq DNA Polymerase, RNase Inhibitor, reaction Buffer, enzyme stabilizer and dNTPs mixture 50X ROX dye (25 µM, 50 µl X 1)

Description

SuPrimeScript qRT-PCR Premix (for Probe Real-time PCR) provides a complete system for fast, high-yield and reliable single-tube one-step qRT-PCR.

Usage Information

- The reaction temperature for cDNA synthesis is **50°C**.
- The reaction time for cDNA synthesis is **20 min**.

Protocol

The following 20 µl or 50 µl reaction volume can be used for one-step qRT-PCR.

1. Program the real-time PCR instrument.

2. Prepare the reaction mixture

Components	Volume	
	add up to 20 µl	add up to 50 µl
RNase-free water		
Upstream Primer (10 pmoles/µl, 10 µM)	x µl	x µl
Downstream Primer (10 pmoles/µl, 10 µM)	x µl	x µl
TaqMan probe (10 pmoles/µl, 10 µM)	x µl	x µl
[50X ROX dye (Option)]*	[x µl]	[x µl]
RNA	- total RNA (1 ng ~ 500 ng)	x µl
	- mRNA (0.1 ng ~ 50 ng)	x µl
2X SuPrimeScript qRT-PCR Premix	10 µl	25 µl

♣ 50X ROX dye

ROX dye can be included in the reaction to normalize the fluorescent reporter signal, for instruments that are compatible with that option. ROX is supplied at a 25 µM concentration. Use the following table to determine the amount of ROX to use with a particular instrument (per 50 µl reaction volume).

Instrument	Amount of ROX per 50 µl reaction	Final ROX Concentration
AB 7000, 7300, 7700, 7900HT, 7900HT Fast, StepOne, and StepOnePlus	1.0 µl (1X)	500 nM
AB 7500 Stratagene Mx3000P, Mx3005P, and Mx4000	0.1 µl* (0.1X)	50 nM

★ To accurately pipet 0.1 µl per reaction, we recommend diluting ROX 1:10 immediately before use and use 1 µl of the dilution.

3. PCR cycling

Step	Temp. & Time		Cycles
	Temp.	Time	
cDNA synthesis	50°C	20 min	1
Initial denaturation	95°C	1 min	1
Amplification	95°C	5 sec	30 ~ 45
	60°C	30~45 sec	

● **Research Use Only**

● **Store at -20°C**