

HS Prime qPCR Premix (2X, Real-time PCR for TaqMan Probe)

Product Name	Cat. No.	Size
HS Prime qPCR Premix (2X)	Q-4000	1.0 ml X 1
	Q-4001	1.0 ml X 3
	Q-4002	1.0 ml X 5
HS Prime qPCR Premix (2X, ROX dye 포함)	Q-4100	1.0 ml X 1
	Q-4101	1.0 ml X 3
	Q-4102	1.0 ml X 5

Package information

Q-4000	2X HS Prime qPCR Premix (1.0 ml X 1) - with HS Prime Taq DNA Polymersae, reaction buffer, enzyme stabilizer, dNTPs mixture and PCR enhancer
Q-4100	2X HS Prime qPCR Premix (1.0 ml X 1) - with HS Prime Taq DNA Polymersae, reaction buffer, enzyme stabilizer, dNTPs mixture and PCR enhancer 50X ROX dye (25 µM, 50 µℓ X 1)

Description

HS Prime qPCR Premix (Real-time PCR for TaqMan Probe) is a 2X premix reagent for real-time PCR by using TaqMan® probe. This product is contains the HS Prime Taq DNA Polymerase, which is an enzyme for hot-start PCR.

Also HS Prime qPCR Premix (Real-time PCR for TaqMan Probe) provide as PCR Premix that may be used with any appropriately designed primer and probe to detect any DNA or cDNA sequence.

Usage Information

- A target template is a DNA, cDNA and all nucleotide sequence.
- Consistent results are obtained for amplicon size ranges from 50 to 150 bp.

Protocol

The following 50 μl reaction volume can be used for probe real-time PCR.

1. Program the real-time PCR instrument.

Volume	
add up to 50μ	
×µl	
×μl	
×μl	
[×µl]	
×μl	
25 <i>µ</i> l	

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 μ M concentration. Use the following table to determine the amount of ROX to use with a particular instrument (per 50 μ l reaction volume).

Instrument	Amount of ROX	Final ROX
Instrument	per 50 μ reaction	Concentration
AB 7000, 7300, 7700,		500 nM
7900HT, 7900HT Fast,	1 0 (1)	
StepOne, and	1.0 <i>µ</i> l (1X)	
StepOnePlus		
AB 7500, QuantStudio		
Stratagene Mx3000P,	0.1 <i>µ</i> ℓ* (0.1X)	50 nM
Mx3005P, and Mx4000		

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

3. PCR cycling

Stee	Temp. & Time		Gudaa
Step	Temp.	Time	Cycles
Initial denaturation	95°C	10 min	1
Amplification	95℃ 60℃	10~15 sec 30~60 sec	30 ~ 45

Research Use Only

Store at -20°C