

# **HS Prime qPCR Premix**

# (2X, Real-time PCR for TagMan 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)	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 ½ X 1)

### Description

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

Also HS Prime gPCR Premix (Real-time PCR for TagMan 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.

#### 2. Prepare the reaction mixture

Components	Volume	
DNase-free water	add up to 50 🗚	
Upstream Primer (10 pmole, 10 μM)	×μl	
Downstream Primer (10 pmole, 10 µM)	×μl	
TaqMan probe (10 pmole, 10 μM)	×μl	
[50X ROX dye (Option)]*	[x#l]	
Template DNA	×μl	
HS Prime qPCR Premix (2X)	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 µM concentration. Use the following table to determine the amount of ROX to use with a particular instrument (per 50  $\mu$ l reaction volume).

Instrument	Amount of ROX	Final ROX
instrument	per 50 ₪ reaction	Concentration
AB 7000, 7300, 7700,		
7900HT, 7900HT Fast,	1.0 (1)()	500 nM
StepOne, and	1.0 <i>⊯</i> (1X)	
StepOnePlus		
AB 7500, QuantStudio		
Stratagene Mx3000P,	0.1 <i>µ</i> ℓ* (0.1X)	50 nM
Mx3005P, and Mx4000		
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 $\bigstar$  To accurately pipet 0.1  $\mu$ l per reaction, we recommend diluting ROX 1:10 immediately before use and use  $1\mu$  of the dilution.

## 3. PCR cycling

Chara	Temp. & Time		Contra
Step	Temp.	Time	Cycles
Initial denaturation	95℃	10 min	1
Amplification	ენ ენ	10~15 sec 30~60 sec	30 ~ 45

Store at -20℃