Prime Q-Mastermix

(2X, Real-time PCR with SYBR Green I)

Product Name	Cat. No.	Size
Prime Q-Mastermix (2X)	Q-9200	1.0 ml X 1
Prime Q-Mastermix (2X, with ROX dye)	Q-9210	1.0 ml X 1

Package information

Q-9200	2X Prime Q-Mastermix (1.0 ml X 1) - with HS Prime Taq DNA Polymersae, reaction buffer, enzyme stabilizer, dNTPs mixture, SYBR Green I and PCR enhancer
Q-9210	2X Prime Q-Mastermix (1.0 ml X 1) - with HS Prime Taq DNA Polymersae, reaction buffer, enzyme stabilizer, dNTPs mixture, SYBR Green I and PCR enhancer 50X ROX dye (25 μM, 50㎕ X 1)

Description

Prime Q-Mastermix (Real-time PCR with SYBR Green I) is a 2X premix reagent for real-time PCR by using SYBR Green I dye. This product is contains the HS Prime Taq DNA Polymerase, which is an enzyme for hot-start PCR.
Also Prime Q-Mastermix (Real-time PCR with SYBR Green I) provide as PCR Premix that may be used with any appropriately designed primer 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 less than 500 bp.

Protocol

The following 50㎕ reaction volume can be used for detection using SYBR Green I 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)	x㎕
Downstream Primer (10 pmole, 10 μM)	x㎕
[50X ROX dye **(Option)**]♣	[x㎕]
Template DNA	x㎕
Prime Q-Mastermix (2X)	25㎕

♣ **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㎕ reaction volume).

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

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

3. PCR cycling

Step	Temp. & Time		Cycles
	Temp.	Time	
Initial denaturation	**95℃**	**10 min**	1
Denaturation	95℃	30~60 sec	30 ~ 45
Annealing	50~60℃	30~60 sec	
Extension	72℃	30~60 sec	

◉ Research Use Only
◉ Store at -20℃

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