SuPrime HF Premix (2X)

Product Name	Cat. No.	Size
SuPrime HF Premix (2X)	HF-2000	1.0 ml X 1

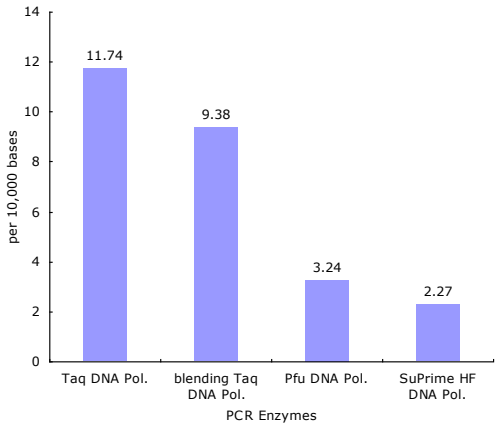
Package information

HF-2000	2X SuPrime HF Premix (1.0 ml X 1) - with SuPrime HF DNA Polymerase, dNTPs mixture, reaction buffer, enzyme stabilizer and loading dye

Description

SuPrime HF Premix contains SuPrime HF DNA Polymerase, dNTPs mixture, reaction buffer, enzyme stabilizer and loading dye for electrophoresis.

〈Error Rate of SuPrime HF DNA Polymerase〉



▶Genomic DNA were amplified with SuPrime HF DNA Polymerase and other Polymerase. 1 kb PCR products were cloned into vector. Each 100 clones were selected and subjected to sequence analysis to determine the error rate.

Usage Information

- ▣ SuPrime HF Premix produce **blunt end DNA fragments**.
- ▣ The extension time for long PCR is **20~30 sec/kb**.
- ▣ The denaturation and extension temp. is **98℃** and **68℃**.
- ▣ The concentration of SuPrime HF Premix is **2X**.
- ▣ The amount of SuPrime HF DNA Polymerase per 10㎕ SuPrime HF Premix is **1 unit**.
- ▣ **If the smearing or non-specific products are appeared, use the SuPrime HF DNA Polymerase (Cat. No. HF-1000).**

Protocol

The following 20㎕ reaction volume can be used for PCR.

1. Prepare the following components to a PCR tube.

Components	Volume
DW	add up to 20㎕
2X SuPrime HF Premix	10㎕
Upstream Primer (10 pmoles/㎕)	0.5 ~ 1㎕
Downstream Primer (10 pmoles/㎕)	0.5 ~ 1㎕
Template DNA*	X㎕

* Amount of template DNA
 - Plasmid, Lambda DNA, BAC DNA: 1 pg~5 ng
 - Genomic DNA: 10 ng~250 ng

2. PCR cycling

Step	2-step PCR		3-step PCR		Cycles
	Temp.	Time	Temp.	Time	
Initial denaturation	98℃	2 min	98℃	2 min	1
Denaturation Annealing Extension	98℃ - 68℃	10 sec - 10~30s/kb	98℃ X℃ 68℃	10 sec 20 sec 10~30s/kb	25~35
Final Extension	68℃	5 min	68℃	5 min	1

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

● **Research Use Only**
● **Store at -20℃**

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