

DNA free-DLRTaq PCR Master Mix (Duo Long Range)

Cat. No. DFDLM-5
Storage Temperature, -20°C

1. 제품 정보(Description)

2X DNA free-DLRTaq PCR Master Mix는 DNA free-DLRTaq DNA Polymerase을 사용하여 사용자가 간편하게 PCR 반응을 수행 할 수 있도록 고안된 master mix 제품입니다. 특히 큰 사이즈(< 40 kb)의 DNA를 증폭하고자 할 경우 우수한 결과를 얻을 수 있습니다.

2. 제품 특징

- 5'→3' exonuclease activity : Yes
- 3'→5' exonuclease activity : Yes(weak)
- Amplification size : < 40 kb
- A-tailing : Yes

3. 제품 적용(Application)

- Long range PCR
- Routine PCR, multiplex PCR and qPCR
- Allele specific PCR
- 16S and 23S rRNA gene amplification
- Detection of bacteria in samples(e.g. blood)
- DNA labeling reactions & TA-cloning
- Sequencing / cycle sequencing

4. 제품 구성(Kit components)

제품 구성	DFDLM-5
2X DNA free-DLRTaq PCR Master Mix	5 ml

5. 실험 방법(Reaction protocol)

1) Reaction mixture (for 20 µl or 50 µl reaction)

Reaction component	Volume	
2X DNA free-DLRTaq Master Mix	10 µl	25 µl
Template*	0.1 ng ~ 1 µg	
Forward primers	1~10 pmole/µl	
Reverse primers	1~10 pmole/µl	
DNase free water	up to 20 µl	up to 50 µl

* For genomic DNA template, 0.1 ng ~ 100 ng
For plasmid DNA, 0.01 ng ~ 15 ng

2) PCR 반응 조건

Step	Temperature	Time	# of cycles
Initial denaturation	95°C	3~5 min	1
Denaturation	95°C	30 sec	30~40
Annealing*	55~65°C	30 sec	
Extension**	72°C	30 sec ~ 2 min	
Final elongation	72°C	5 min	1
Cooling	4°C	∞	1

* Optimal annealing temperature depends on the melting temperature of the primers and on the system used.

**일반적으로 1 min/kb 로 하고 3 kb 이상은 1.5~2.0 min/kb 로 할 것.

6. 관련 제품

Hot start Taq Polymerase	Cat. No.
DNA free-HotTaq DNA Polymerase 250 unit	DFH-250
DNA free-HotTaq DNA Polymerase 500 unit	DFH-500
PCR Master Mix	
DNA free-Taq Master Mix with dye 5 x 1 ml	DFTM-5
DNA free-HotTaq Master Mix with dye 5 x 1 ml	DFHM-5