

**Cfr42 I**

Cat. No.	용량	농도
DYR1280	1,200 units	10 units/μl
DYR1282	2,400 units	10 units/μl
DYR1284	6,000 units	10 units/μl
DYR1286	6,000 units	50 units/μl

**◆ 제품구성**

- Cfr42 I
- 10X DY Buffer I
- 10X FastCut Buffer
- Sterile water
- Dyne 6X DNA Loading Buffer ver.2

**◆ Source**

- Citrobacter freundii* RFL42

**◆ Quality control**

- Unit definition assay
- Overdigestion assay
- Endonuclease assay
- Extreme purity assay

**◆ 인식부위**



**Single letter code**

W = A or T	S = C or V = A or C or G
N = A or C or G or T	M = A or C
K = G or T	R = A or G
Y = C or T	B = C or G or T
D = A or G or T	H = A or C or T

**◆ 보관온도**

- 20°C

**◆ Heat inactivation**

- 65°C for 20 min.

**◆ Unit정의**

- 1 unit은 박테리오파지 λ DNA 1 μg을 50 μl 반응물로 37°C에서 1시간 동안 완전히 분해하는데 필요한 효소의 양이다.

**◆ Buffer별 상대적 활성도**

I	II	III	IV	FastCut
100%	50%	25%	75%	100%

**◆ Methylation effect**

Methylation	dam	dcm	CpG
Cleavage	Cleavage	Cleavage	No Cleavage

**◆ 주의사항**

- CpG 메틸화(methylation)은 mammalian genomic DNA 절단을 저해한다.

**◆ 표준반응 조건**

- Normal Protocol

Component	농도	Volume
Substrate DNA	1 μg	X μl
10X DY Buffer I	1 X	5 μl
Cfr42 I		Substrate dependent
Sterile water		Up to 50 μl

- \* Incubate at 37°C for 1 hr

- Fast Protocol

Component	농도	Volume
Substrate DNA	1 μg	X μl
10X FastCut Buffer	1 X	5 μl
Cfr42 I	10 unit	1 μl
Sterile water		Up to 50 μl

- \* Incubate at 37°C for 15 min