

**Dyne SmartCut EcoR I**

Cat. No.	용량	농도
DYR2100	20,000 units	20 units/μl
DYR2102	40,000 units	20 units/μl
DYR2104	100,000 units	20 units/μl
DYR2106	100,000 units	100 units/μl

◆ **제품구성**

Dyne SmartCut EcoR I  
 10X DY Buffer IV  
 10X FastCut Buffer  
 Sterile water  
 Dyne 6X DNA Loading Buffer ver.2

◆ **Source**

· *E.coli* RY13

◆ **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 TG	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

◆ **Unit정의**

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

◆ **Heat inactivation**

· 65°C for 20 min

◆ **Buffer별 상대적 활성도**

I	II	III	IV	FastCut
10%	100%	10%	100%	100%

◆ **Methylation sensitivity**

Methylation	<i>dam</i>	<i>dcm</i>	CpG
Cleavage	Cleavage	Cleavage	Conditional

◆ **주의사항**

· CpG 메틸화는 mammalian genomic DNA 절단을 저해한다.

◆ **표준반응 조건**

· Normal Protocol

Component	농도	Volume
Substrate DNA	1 μg	X μl
10X DY Buffer IV	1 X	5 μl
SmartCut EcoR 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
SmartCut EcoR I	20 unit	1 μl
Sterile water		Up to 50 μl

\* Incubate at 37°C for 15 min