

Apo I

Cat. No.	용량	농도
DYR2370	1,000 units	10 units/μl
DYR2372	2,000 units	10 units/μl
DYR2374	5,000 units	10 units/μl

◆ 제품구성

Apo I
10X DY Buffer III
10X FastCut Buffer
Sterile water
Dyne 6X DNA Loading Buffer ver.2

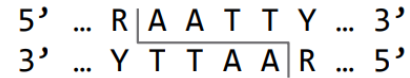
◆ Source

· *Arthrobacter protophormiae*

◆ 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

◆ Unit정의

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

◆ Heat inactivation

· 80°C for 20 min

◆ Buffer별 상대적 활성도

I	II	III	IV	FastCut
10%	75%	100%	75%	100%

◆ Methylation effect

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

◆ 주의사항

· Apo I의 반응물 5' AATT는 EcoR I과 반응한 DNA와 ligation 진행될 수 있다.

◆ 표준반응 조건

· Normal Protocol

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

* Incubate at 50°C for 1 hr

· Fast Protocol

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

* Incubate at 50°C for 15 min