

Acl I

Cat. No.	용량	농도
DYR2420	300 units	5 units/μl
DYR2422	600 units	5 units/μl
DYR2424	1,500 units	5 units/μl

◆ **제품구성**

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

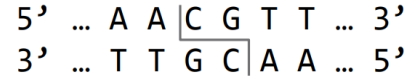
◆ **Source**

- *Acinetobacter calcoaceticus* M4

◆ **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**

- No

◆ **Buffer별 상대적 활성도**

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

◆ **Methylation effect**

Methylation	<i>dam</i>	<i>dcm</i>	CpG
Cleavage	Cleavage	Cleavage	Not Cleavage

◆ **주의사항**

- Acl I는 Psp1406I의 동일서열인식 제한효소이다.
- 열민감도가 없는 효소의 경우 반응에서 효소를 제거하는 방법으로는:

- 1) a Column for Cleanup
- 2) agarose gel 전기영동 후 DNA 추출
- 3) 페놀/클로로폼 혼합물에 의한 DNA 추출

◆ **표준반응 조건**

- Normal Protocol

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

- * Incubate at 37°C for 15 min