

Asc I

Cat. No.	용량	농도
DYR1090	500 units	10 units/μl
DYR1092	1,000 units	10 units/μl
DYR1094	2,500 units	10 units/μl
DYR1096	2,500 units	50 units/μl

◆ 제품구성

	Vol. (μl)
Asc I	50
10X DY Buffer IV	1,000
10X FastCut Buffer	1,000
Sterile water	1,000
Dyne 6X DNA Loading Buffer ver.2	1,000

◆ Source

· *Arthrobacter species*

◆ 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

· 80°C for 20 min

◆ Buffer별 상대적 활성도

I	II	III	IV	FastCut
0%	0%	0%	100%	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 IV	1 X	5 μl
Asc 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
Asc I	10 unit	1 μl
Sterile water		Up to 50 μl

* Incubate at 37°C for 15 min