

Afl II

Cat. No.	용량	농도
DYR1040	2,000 units	4 units/ μ l
DYR1042	4,000 units	4 units/ μ l
DYR1044	10,000 units	4 units/ μ l
DYR1046	10,000 units	20 units/ μ l

◆ 제품구성

Afl II

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

◆ Source

- Anabaena flos-aquae*

◆ 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 μ g을 50 μ l 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
75%	100%	75%	100%	100%

◆ Methylation effect

Methylation	dam	dcm	CpG
Cleavage	Cleavage	Cleavage	Cleavage

◆ Methylation sensitivity

- dam* methylation: Not sensitive.
- dcm* methylation: Not sensitive.
- CpG methylation: Not sensitive.

◆ 주의사항

- dam*, *dcm* 혹은 CpG 메틸화(methylation)에 의한 영향을 받지 않는다.
- 100~500 units의 T4 DNA ligase가 포함된 20 μ l reaction mixture에서 절단된 단편의 50% 이하는 ligation 된다.

◆ 표준반응 조건

Normal Protocol

Component	농도	Volume
Substrate DNA	1 μ g	X μ l
10X DY Buffer IV	1 X	5 μ l
Afl II		Substrate dependent
Sterile water		Up to 50 μ l

* Incubate at 37°C for 1 hr

Fast Protocol

Component	농도	Volume
Substrate DNA	1 μ g	X μ l
10X FastCut Buffer	1 X	5 μ l
Afl II	4 unit	1 μ l
Sterile water		Up to 50 μ l

* Incubate at 37°C for 15 min