

PaeR7 I

Cat. No.	용량	농도
DYR1770	2,000 units	20 units/μl
DYR1772	4,000 units	20 units/μl
DYR1774	10,000 units	20 units/μl
DYR1776	10,000 units	100 units/μl

◆ 제품구성

- PaeR7 I
- 10X DY Buffer IV
- 10X FastCut Buffer
- Sterile water
- Dyne 6X DNA Loading Buffer ver.2

◆ Source

- *Pseudomonas aeruginosa* PA0303 pMG7

◆ Quality control

- Unit definition assay
- Overdigestion assay
- Endonuclease assay
- Exeme 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

◆ Heat inactivation

- No

◆ Unit정의

- 1 unit은 박테리오파지 λ DNA(Hind III digestion) 1 μg을 50 μl 반응물로 37°C에서 1시간 동안 완전히 분해하는데 필요한 효소의 양이다.

◆ Buffer별 상대적 활성도

I	II	III	IV	FastCut
25%	100%	10%	100%	100%

◆ Methylation effect

Methylation	dam	dcm	CpG
Cleavage	Cleavage	Cleavage	No Cleavage

◆ 주의사항

- Xho I의 동일서열인식 제한효소이다. CpG 메틸화 (methylation)은 mammalian genomic DNA절단을 저해한다.

◆ 표준반응 조건

- Normal Protocol

Component	농도	Volume
Substrate DNA	1 μg	X μl
10X DY Buffer IV	1 X	5 μl
PaeR7 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
PaeR7 I	20 unit	1 μl
Sterile water		Up to 50 μl

- * Incubate at 37°C for 15 min