

## Taq I

Cat. No.	용량	농도
DYR2030	4,000 units	20 units/μl
DYR2032	8,000 units	20 units/μl
DYR2034	20,000 units	20 units/μl
DYR2036	20,000 units	100 units/μl

### ◆ 제품구성

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

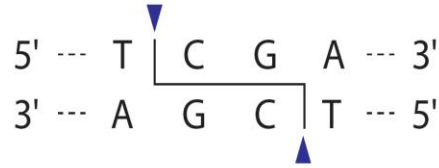
### ◆ Source

· *Thermus aquaticus* YT1

### ◆ 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

### ◆ Heat inactivation

· 80°C for 20 min

### ◆ Unit정의

· 1 unit은 박테리오파지 λ DNA 1 μg을 50 μl 반응물로 65°C에서 1시간 동안 완전히 분해하는데 필요한 효소의 양이다.

### ◆ Buffer별 상대적 활성도

I	II	III	IV	FastCut
50%	100%	100%	100%	100%

### ◆ Methylation effect

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

### ◆ 주의사항

· *dam* 메틸화(methylation)에 의해 활성이 저해된다. 37°C에서 반응 시 절단효율은 10%이며, 최적 활성 반응온도는 65°C이다.

### ◆ 표준반응 조건

· Normal Protocol

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

\* Incubate at 65°C for 1 hr

· Fast Protocol

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

\* Incubate at 65°C for 15 min