

## PspG I

Cat. No.	용량	농도
DYR1830	1,000 units	10 units/μl
DYR1832	2,000 units	10 units/μl
DYR1834	5,000 units	10 units/μl
DYR1836	5,000 units	50 units/μl

### ◆ 제품구성

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

### ◆ Source

· *Pyrococcus species* strain GI-H

### ◆ 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

· No.

### ◆ Unit정의

· 1 unit은 T7 DNA 1 μg을 50 μl 반응물로 37°C에서 1시간 동안 완전히 분해하는데 필요한 효소의 양이다.

### ◆ Buffer별 상대적 활성도

I	II	III	IV	FastCut
25%	100%	75%	100%	100%

### ◆ Methylation effect

Methylation	dam	dcm	CpG
Cleavage	Cleavage	No Cleavage	Cleavage

### ◆ 표준반응 조건

· Normal Protocol

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

\* Incubate at 37°C or 75°C for 1 hr

· Fast Protocol

Component	농도	Volume
Substrate DNA	1 μg	X μl
10X FastCut Buffer	1 X	5 μl
PspG I	10 Unit	Substrate dependent
Sterile water		Up to 50 μl

\* Incubate at 37°C or 75°C for 15 min