

Nt.BstNB I

Cat. No.	용량	농도
DYR1760	1,000 units	10 units/μl
DYR1762	2,000 units	10 units/μl
DYR1764	5,000 units	10 units/μl
DYR1766	5,000 units	50 units/μl

◆ 제품구성

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

◆ Source

- *Bacillus stercorophilus 33M*

◆ 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, 20분.

◆ Unit정의

- 1 unit은 1μg의 supercoiled plasmid DNA를 55°C에서 1시간 반응하였을 때 open circular form으로 전환되는 효소의 양을 의미합니다. (반응액 50 μl 기준)

◆ Buffer별 상대적 활성도

I	II	III	IV	FastCut
0%	10%	100%	0%	100%

◆ Methylation effect

Methylation	dam	dcm	CpG
Cleavage	Cleavage	Cleavage	Cleavage

◆ 표준반응 조건

- Normal Protocol

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

- * Incubate at 55°C for 1 hr

- Fast Protocol

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

- * Incubate at 55°C for 15 min