

Dyne SmartCut Not I

Cat. No.	용량	농도
DYR2150	500 units	10 units/μl
DYR2152	1,000 units	10 units/μl
DYR2154	2,500 units	10 units/μl
DYR2156	2,500 units	50 units/μl

◆ **제품구성**

Dyne SmartCut Not I
 10X DY Buffer IV
 10X FastCut Buffer
 Sterile water
 Dyne 6X DNA Loading Buffer ver.2

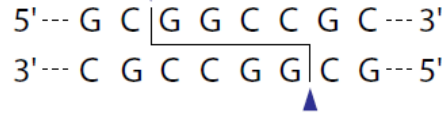
◆ **Source**

· *Nocardia otitidiscaviarum*

◆ **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**

· 65°C for 20 min

◆ **Unit정의**

· 1 unit은 pSK M2 1 μg을 50 μl 반응물로 37°C에서 1시간 동안 50% 이상 분해하는데 필요한 효소의 양이다.

◆ **Buffer별 상대적 활성도**

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

◆ **Methylation effect**

Methylation	dam	dcm	CpG
Cleavage	Cleavage	Cleavage	No Cleavage

◆ **주의사항**

· CpG 메틸화 (methylation)은 mammalian genomic DNA 절단을 저해한다. Supercoiled plasmids 절단 시 linear DNA를 완전히 절단할 때 필요한 효소량의 5배 이상 요구된다.

◆ **표준반응 조건**

· Normal Protocol

Component	농도	Volume
Substrate DNA	1 μg	X μl
10X DY Buffer IV	1 X	5 μl
Dyne SmartCut Not 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
Dyne SmartCut Not I	10 unit	1 μl
Sterile water		Up to 50 μl

* Incubate at 37°C for 15 min