

Data Sheet (19.08.2010)

Nae I

5' ...GCCGGC...3'
3' ...CGGCCG...5'

Source: A *Streptomyces* sp. strain that carries the cloned *Nae I* gene from *Nocardia aerocolonigenes*

Cat.-No.	Size	Conc.
mi-E0122S	300 units	10 u/μl
mi-E0122L	1,500 units	10 u/μl

Buffer supplied: 10x B1 (incl. BSA)

BSA is now already included into the buffer without any loss of performance!

Substrate for unit definition: pBR322 (4 sites)

Reaction conditions:

10 mM Tris-HCl (pH 7.9 @ 25 °C), 10 mM MgCl₂, 1 mM dithiothreitol, 100 μg/ml BSA.

Incubate at **37 °C**.

Storage buffer:

50 mM KCl, 10 mM Tris-HCl (pH 7.4), 0.1 mM EDTA, 1 mM dithiothreitol, 200 μg/ml BSA, and 50 % glycerol.

Store at -20 °C. Avoid warming to 0 °C or higher.

Under these storage conditions, a guarantee of 12 months after delivery is given.

Ligation and recutting:

After 10-fold overdigestion with *Nae I*, > 80 % of the DNA fragments can be ligated and recut with this enzyme.

Heat inactivation: 65 °C for 20 minutes

Note: *Nae I* exhibits site preferences

Note: Blocked by overlapping *dcm* methylation