NruI

L398135

Component	1 KU	5 KU
NruI	50μL	250μL
10×Cut Reaction Buffer	400μL	2mL

Storage/Transportation Condition

Store at -20°C for up to 24 months. Avoid repeated freeze/thaw cycles. Transport on dry ice.

Form

Liquid

Source

E.coli strain that carries NruI gene from

Rhodococcus rhodochrous

Storage Buffer

10 mM Tris-HCl, 50 mM KCl, 1 mM DTT,0.1mM EDTA, 200 μg/mL recombinant Albumin, 50% Glycerol, pH 7.4

10X Cut Reaction Buffer

200 mM Tris-acetate, 500 mM Potassium Acetate, 100 mM Magnesium Acetate, 1 mg/mL Recombinant Albumin, pH 7.9

Concentration

20U/μL

Unit Definition

One unit is defined as the amount of enzyme required to digest 1 μg of λ DNA in 1 hour at 37°C in a total reaction volume of 50 μL.

Product Description

NruI recognizes TCG/CGA sites and generates blunt ends after cleavage. Recombinant Albumin was added to the 10X Cut Reaction Buffer for stability and consistency. Isoschizomers of NruI include Bsp68I, BtuMI and RruI.

Quality Statement

This product is GMP-Ready, indicating that it is currently manufactured at industrial-grade and can be moved to GMP-Grade manufacturing standards as necessary.

Resticition Site

5'…TCG↓CGA…3'

3'…AGC↑GCT…5'

Applications

- Molecular Cloning

- Restriction site mapping
- Genotyping
- SNP

Recommended Protocol for Digestion

1.Make the reaction mixture according to the table below:

Reagent	Quantity
DNA	1 μg
10X Cut Reaction Buffer	5 μL
NruI (20U/μL)	1 μL*
Nuclease-free H2O	Up to 50 μL

*Add NruI last, and it is recommended that the volume of NruI should not exceed 10% of the reaction volume as high glycerol concentration (>5% v/v) may cause star activity.

2. Mix gently and incubate at 37 °C for 30 minutes.

Notes

1.NruI is not sensitive to Dcm methylation. Cleavage is blocked by Dam and CpG methylation.

2.It is recommended to purify DNA sample before cleavage if there is contamination of phenol, chloroform, alcohol, EDTA or detergents which may interfere with restriction enzyme activity.

3.For research use only.