

Restriction Enzyme Kpn2 I



Cat.# FG-Kpn2l Size 500 units Conc. 10 units/µl

Store at -20℃

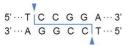
Supplied with: 10X FastGene® Buffer I (FG-REB1)

10X FastGene® FastCut Buffer (FG-REBHF)

6X DNA Loading Buffer

Sterile water

Recognition site



For Research Use Only. Not for use in diagnostic procedures.

ISO9001

Dilution buffer:

FastGene® Diluent A

Heat Inactivation

Kpn2 I can be inactivated at 80°C for 20 min.

Methylation sensitivity

dam methylation: Not sensitive dcm methylation: Not sensitive CpG methylation: Sensitive

Relative activity in FastGene® Buffers

 FastGene® Buffer I:
 100%

 FastGene® Buffer II:
 25%

 FastGene® Buffer IV:
 50%

 FastGene® FastCut Buffer:
 100%

Note

It is an isoschizomer of Acc III and BspE I. Cleavage of mammalian genomic DNA is blocked by CpG methylation.

Source: Klebsiella pneumoniae RFL2

Reaction conditions

1X FastGene® Buffer I, 55℃ 1X FastGene® FastCut Buffer, 55℃

FastGene® FastCut Buffer

FastGene® restriction enzyme can cut substrate DNA in 5-15 with FastGene® FastCut Buffer.

1X FastGene® Buffer I

10 mM Bis Tris propane-HCl (pH 7.0 at 25°C) 10 mM MgCl $_2$ 100 $\mu g/ml$ BSA

Unit definition

One unit is defined as the amount of enzyme required to digest 1 μg of λ DNA in 1 hour at 55°C in a total reaction volume of 50 μ l.

Quality control

- Unit definition assay
- Overdigestion assay
- Endonuclease assay
- Extreme pure assay

Standard reaction condition

- Normal protocol

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Component	Final Conc.	Volume
Substrate DNA	1 μg	Χ μΙ
10X FastGene® Buffer I	1 X	5 μΙ
Kpn2 I	10 unit	1 μΙ
Sterile water		up to 50 μl

- → Incubate at 55°C for 1 hr
- Fast protocol

Component	Final Conc.	Volume
Substrate DNA	1 μg	Χ μΙ
10X FastGene® FastCut Buffer	1 X	5 μΙ
Kpn2 I	10 unit	1 μΙ
Sterile water		up to 50 μl
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→ Incubate at 55°C for 15 min