



Restriction Enzyme Cfr10 I

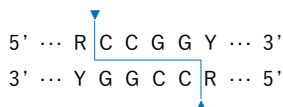


Cat.# FG-Cfr10I	Size 200 units	Conc. 10 units/μl
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Store at -20°C

Supplied with: 10X FastGene® Buffer Cfr10 I (FG-REBCfr10I)
10X FastGene® FastCut Buffer (FG-REBHF)
6X DNA Loading Buffer
Sterile water

Recognition site



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



Source

Citrobacter freundii RFL 10

Reaction conditions

1X FastGene® Buffer Cfr10 I, 37°C
1X FastGene® FastCut Buffer, 37°C

FastGene® FastCut Buffer

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

1X FastGene® Buffer Cfr10 I

10 mM Tris-HCl (pH 8.5 at 25°C)
3 mM MgSO₄
100 mM KCl
0.02% Triton X-100

Unit definition

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

Quality control

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

Standard reaction condition

- Normal protocol

Component	Final Conc.	Volume
Substrate DNA	1 μg	X μl
10X FastGene® Buffer Cfr10 I	1 X	5 μl
Cfr10 I	10 unit	1 μl
Sterile water		up to 50 μl
→ Incubate at 37°C for 1 hr		

- Fast protocol

Component	Final Conc.	Volume
Substrate DNA	1 μg	X μl
10X FastGene® FastCut Buffer	1 X	5 μl
Cfr10 I	10 unit	1 μl
Sterile water		up to 50 μl
→ Incubate at 37°C for 15 min		

※ We recommend 5-10 units of enzyme per μg DNA and 10-20 units for genomic DNA in a 1 h digest.

Dilution buffer

FastGene® Diluent A

Heat Inactivation

No

Methylation sensitivity

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

Relative activity in FastGene® Buffers

FastGene® Buffer I:	10%
FastGene® Buffer II:	10%
FastGene® Buffer III:	10%
FastGene® Buffer IV:	25%
FastGene® FastCut Buffer:	100%

Note

Reaction condition with excess enzyme (10 fold) or low salt concentration may result in star activity. For cleavage with Cfr10 I at least two copies of its recognition sequence are required. It is an isoschizomer of BsrF I.