

Restriction Enzyme Shf I



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

Store at -20℃

Supplied with: 10X FastGene® Buffer IV (FG-REB4)

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

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

Methylation sensitivity

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

Relative activity in FastGene® Buffers

 FastGene® Buffer I:
 50%

 FastGene® Buffer II:
 25%

 FastGene® Buffer III:
 10%

 FastGene® Buffer IV:
 100%

 FastGene® FastCut Buffer:
 100%

Note

It is an isoschizomer of Sse8387 I. Reaction condition with excess enzyme, excess glycerol (>5%) or high pH (>8.0) may result in star activity.

Source: Streptomyces species Bf-61

Reaction conditions

1X FastGene® Buffer IV, 37°C 1X FastGene® FastCut Buffer, 37°C

FastGene® FastCut Buffer

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

1X FastGene® Buffer IV

20 mM Tris-acetate (pH 7.9 at 25°C) 50 mM potassium acetate 10 mM magnesium acetate 100 μg/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 37°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

Component	Final Conc.	Volume
Substrate DNA	1 µg	Xμl
10X FastGene® Buffer IV	1 X	5 μΙ
Sbf 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	Χ μΙ
10X FastGene® FastCut Buffer	1 X	5 μΙ
Sbf I	10 unit	1 μΙ
Sterile water		up to 50 μl
Insubate at 27°C for 1E min		

→ Incubate at 37°C for 15 min