Creative Enzymes®
Molecular Tools

FauND I

Product Information

Cat
ET-1110RE
Recognition Sequence
CA↑TATG GTAT↓AC
Unit Definition
One unit of the enzyme is the amount required to hydrolyze 1 μg of Lambda DNA in 1 hour at 37°C in a total reaction volume of 50 μl.
Reaction Temperature
37°C
Form
Liquid
Storage Buffer
10 mM Tris-HCl (pH 7.5); 50 mM KCl; 0,1 mM EDTA; 1mM DTT; 200 μg/ml BSA, 50% glycerol
Ligation
After 10-fold overdigestion with enzyme 80% of the DNA fragments can be ligated and recut. In the presence of 10% PEG ligation is better.
Source
An E.coli strain that carries the cloned FauND I gene from Flavobacterium aquatili ND
Assayed on
Lambda DNA
Working buffer
Y (33 mM Tris-acetate (pH 7.9 at 25°C); 10 mM magnesium acetate; 66 mM potassium acetate; 1 mM DTT.) + BSA

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B	G	O	W	Y	Rose
50 - 75	75 - 100	10 - 25	50 - 75	100	100

Non-specific hydrolisis

No nonspecific activity was detected after incubation of 1 μg of Lambda DNA with 10 u.a. of enzyme for 16 hours at 37°C.

Size

1000U; 5000U

Concentration, u.a./ml

10000

Inactivation

20min Under 65°C

Reagents Supplied

10 X SE-buffer Y, BSA

Storage

-20°C

Notes

Sensitive to impurities present in some DNA preparations. For example, DNA purified by standard miniprep procedures is cleaved at lower rates.
To obtain 100% activity, BSA should be added to the 1 x reaction mix to a final concentration of 100 μg/ml.
Do not use BSA for long incubation.

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