

## TelN Protelomerase

**Product Number: TE101**

### Shipping and Storage

Storage at -20±5°C.

### Component

Component	TE101
TelN Protelomerase (5U/μL)	200μL
10×TelN Reaction Buffer	1mL

### Description

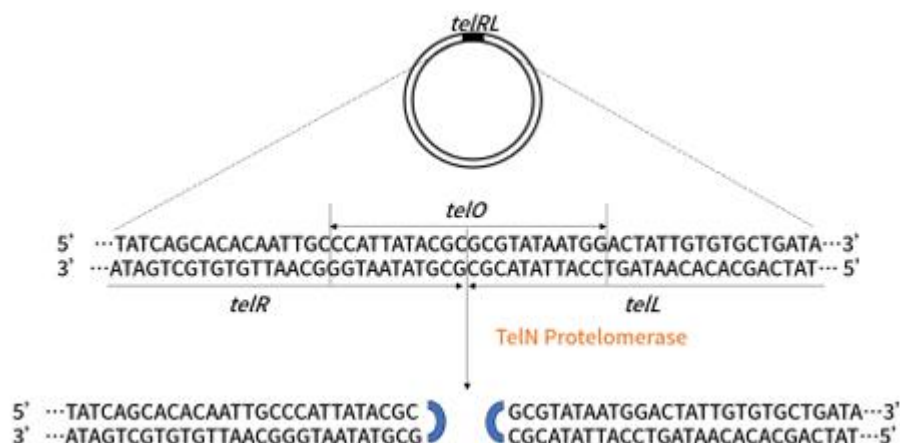
This product is a protein cloned from the TelN Protelomerase gene expression of phage N15. It can specifically recognize the telRL sequence (56bp) on dsDNA, cleave dsDNA, and form a covalently closed end at the cleavage site, effectively transforming circular DNA into linear DNA with a closed end. The closed ended linear DNA generated by TelN Protelomerase treatment has stable performance, long half-life, and only introduces two 28 bp short sequences except for necessary sequences. It can encode long, complex, or unstable DNA sequences, does not contain bacterial sequences, and has a strong expression profile.

### Application

This product can be used in fields such as DNA vaccine development, mRNA vaccine development, virus vector preparation, DNA data storage, etc.

### Features

This product has strong specificity and can specifically cleave the recognized DNA sequence (telRL) to form a covalently closed end. The recognition sequence is as follows:



### Unit definition

1 unit refers to the amount of enzyme required to cleave 0.5μg BsaI linearized plasmid (313fmol telRL recognition site) in a 50μL 1 × TelN Reaction Buffer reaction buffer system at 30°C for 30 minutes.

### Note

- The recognition site of TelN Protelomerase is not a palindrome sequence, and there is a difference of 3 bases between telR and telL sequences;



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2. Incubation time exceeding 30 minutes will not increase the enzymatic efficiency of this enzyme;
3. Try to minimize the exposure time of enzymes above -20°C.

### **Protocol**

1. Recommended reaction system:

Component	Volume
10×TelN Reaction Buffer	2μL
DNA (<300fmol of telRL sites)	XμL
TelN Protelomerase (5U/μL)	1μL
RNase Free Water	Up to 20μL

2. Reaction conditions: 30°C, 30min.
3. Heat inactivation: 75°C, 5 minutes.