

## Hieff™ Novel T4 DNA Ligase (400 U/μL)

### Product Information

Product name	Cat#	Specification
Hieff™ Novel T4 DNA Ligase (400 U/μL)	10298ES40	40,000 U
	10298ES42	400 KU

### Product Description

Hieff™ Novel T4 DNA Ligase is a single enzyme product that can be used for DNA fragments and adapters ligation during NGS library preparation. The product has been verified by high-throughput sequencing and has excellent quality. This enzyme has efficient ligation ability and is compatible with various samples.

### Product Components

Components	10298ES40	10298ES42
10298-A Hieff™ Novel T4 DNA Ligase (400 U/μL)	100 μL	1 mL
10298-B 10 × T4 DNA Ligase Buffer	250 μL	2×1250 μL

### Shipping and Storage

The components are shipped with ice packs and can be stored at -20°C for 2 years.

### Unit Definition

The amount of enzyme required to catalyze the ligation of more than 50% of the DNA fragments in a 20 μL ligation reaction system is defined as 1 activity unit (U) when 6 μg of λDNA Hind III catabolite is reacted at 16 °C for 30 min.

### Cautions

1. For your safety and health, please wear lab coats and disposable gloves for operation.
2. For research use only!

### Instructions

The kit is compatible with the mainstream commercial end repair and dA-tailing modules for adapter ligation. Please refer to the following table to prepare the reaction system, vortex and spin down the contents and then place at **20 °C for 15 min.**

Table 1 Adapter Ligation System

Component	Volume (μL)
dA-tailed DNA	60
10 × T4 DNA Ligase Buffer	10
50% PEG 6000	10*
DNA Adapter	x
Hieff™ Novel T4 DNA Ligase	1-5
ddH <sub>2</sub> O	To 100

Note: 50% PEG 6000 is not provided in the kit, you need to prepare it yourself.