



Creative Enzymes

Diagnostic Enzymes

High-Fidelity DNA Polymerase

Product Information

Cat#	POL-011
Storage	Store at -25 ~ -15°C for 2 years.
Activity	1 U/μL
Description	High-Fidelity DNA Polymerase, based on Pyrococcus Furiosus DNA Polymerase, is genetically engineered to contain a 5'→3' polymerase domain and a 3'→5' exonuclease domain. This combination significantly improves the enzyme's thermostability and fidelity. It has a thermostability of 98°C and fidelity 52 times that of Taq DNA polymerase and 6 times that of ordinary Pfu DNA polymerase.
Applications	This enzyme is primarily designed for NGS library amplification, overcoming GC-bias caused by amplifying templates with varying GC content, resulting in a substantial increase in library amplification yield.
Specification	100 U; 500 U
Activity Definitions	Using activated salmon sperm DNA as a template/primer, at 74°C for 30 min, the amount of enzyme that ingests 10 nmol of complete nucleotides as acidic insoluble matter is defined as 1 activity unit (U).