

Hieff Canace™ Pro High-Fidelity DNA Polymerase

Product Information

Product Name	Cat#	Specification
Hieff Canace™ Pro High-Fidelity DNA Polymerase	13476ES60	100 U
	13476ES76	500 U

Product Description

Hieff Canace™ Pro High-Fidelity DNA Polymerase is a new generation of high-fidelity DNA polymerase, which has been genetically engineered, and its fidelity performance has been greatly improved. At the same time, this product is equipped with a separate buffer and added a special amplification accelerator, which has extremely high amplification efficiency and wide template adaptability and overcomes the GC-bias caused by the amplification of templates with different GC contents.

Product Components

Components	13476ES60	13476ES76
13476-A Hieff Canace™ Pro High-Fidelity DNA Polymerase (0.5 U/μL)	200 μL	1 mL
13476-B 2×Canace™ Pro PCR buffer (Mg ²⁺ , dNTPs)	1.25 mL×2	1.25 mL×10

Shipping and Storage

All the components are shipped with dry ice and can be stored at -20°C for 2 years.

Applications

Gene cloning;

Complex DNA template amplification;

High-throughput library construction.

Cautions

1. For your safety and health, please wear a lab coat and disposable gloves.
2. This product is only for scientific research purposes!

Instructions

Please read instructions carefully before use.

1、PCR reaction system (recommended to prepare on ice)

Table 1. PCR amplification reaction

Components	Volume
ddH ₂ O	to 50 μL
2×Canace™ Pro PCR buffer (Mg ²⁺ , dNTPs)	25 μL
Template or ligation product	X
NGS Primer 1 (10-25 μM)	X μL
NGS Primer 2 (10~25 μM)	X μL
Hieff Canace™ Pro High-Fidelity DNA Polymerase (0.5 U/μL)	2 μL

【Notes】 : 1) **Reagent use:** mix well before use;

2) **Polymerase concentration:** 1 U/50 μL is recommended. Can be optimized between 0.5-2 U/50 μL;

3) **Final concentration of Mg²⁺:** the final concentration of the system is 2 mM. For special needs, use 50 mM MgCl₂ to explore upwards at intervals of 0.2-0.5 mM;

2、PCR amplification procedure

Table 2. PCR amplification reaction program

Temperature	Duration	Cycles
98°C	1 min	1
98°C	10 sec	
60°C	30 sec	1~15
72°C	30 sec	
72°C	5 min	1
4°C	Hold	-