
Catalog	Unit
TBP0148-500	500U
TBP0148-1000	1000U

Description

Super Fidelity DNA Polymerase is a next-generation ultra fidelity enzyme designed from Pfu DNA Polymerase, offering significantly enhanced performance in long fragment amplification, specificity, and yield. It is particularly well-suited for cloning large DNA fragments, with a proven advantage in amplifying sequences. Its exceptional fidelity and robust amplification make it ideal for direct PCR from complex samples such as bacterial, fungal, plant, and animal tissues, as well as whole blood.

Product Details

Concentration: 2 u/μl

Storage: -20°C

Features

- **Super High Fidelity:** The fidelity of Super Fidelity polymerase is 50 times of the Taq Polymerase and 6 times of the Pfu polymerase.
- **High Speed:** The amplification speed is 15-30 sec/KB, which successfully overcome the low amplification efficiency and low amplification speed defect of Pfu.
- **Especially for long fragment:** The fragment can be as long as 20KB.

Specifications

Hot Start	None
Fidelity (vs. Taq)	52X
Polymerase	Super Fidelity DNA Polymerase
Final Product Size(s)	20 kb or more
Reaction Format	Separate Components
Reaction Speed	15-30 sec/kb
GC-Rich PCR	Applicable
Exonuclease Activity	3' - 5'

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