

Datasheet for ABIN5519574

## TransTaq® DNA Polymerase High Fidelity(HiFi)

1 [Image](#)

### Overview

Quantity: 250 units

Application: Polymerase Chain Reaction (PCR)

### Product Details

**Purpose:** TransTaq® DNA Polymerase High Fidelity (TransTaq® HiFi DNA Polymerase) contains TransTaq®-T DNA Polymerase and a proofreading 3'-5' exonuclease.

**Brand:** TransTaq®

**Specificity:** TransTaq® HiFi DNA Polymerase provides higher specificity and higher amplification efficiency than TransTaq®-T DNA Polymerase. Two different buffers are provided in the kit. TransTaq® HiFi Buffer I is optimized for the amplification of genomic DNA and TransTaq® HiFi Buffer II is optimized for the amplification of λDNA, cDNA or plasmid DNA.

**Characteristics:**

- TransTaq® HiFi DNA Polymerase offers 18-fold fidelity as compared to EasyTaq® DNA Polymerase.
- Extension rate is about 1-2 kb/min.
- Template-independent "A" can be generated at the 3' end of the PCR product. PCR products can be directly cloned into pEASY®-T vectors.
- Amplification of genomic DNA fragment up to 15 kb.

**Components:** DNA Polymerase, 10X HiFi Buffer I, 10X HiFi Buffer II, 10X GC Enhancer, 6X DNA Loading Buffer

**Unit Definition:** One unit of TransTaq® HiFi DNA Polymerase incorporates 10 nmol of deoxyribonucleotide into acid-precipitable material in 30 minutes at 74°C.

### Application Details

**Application Notes:** Complex templates, GC/AT rich templates, Long PCR, High yield PCR

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## Application Details

**Comment:** TransTaq® HiFi DNA Polymerase has passed the following quality control assays: functional absence of double- and single-strand endonuclease activity, >99% homogeneous measured by SDS-PAGE. Each batch of TransTaq® HiFi DNA Polymerase has been assayed for amplification efficiency to amplify p53 gene from 10 ng of human genomic DNA

**Restrictions:** For Research Use only

## Handling

**Buffer:** Storage Buffer: 20 mM Tris-HCl (pH 8.0), 0.1 mM EDTA, 1 mM DTT, 100 mM KCl, 50 % glycerol, stabilizers

10xTransTaq® HiFi Buffer: 200 mM Tris-HCl (pH 9.0), 100 mM KCl, 100 mM (NH<sub>4</sub>)<sub>2</sub>SO<sub>4</sub>, 20 mM MgSO<sub>4</sub>, 10 % Glycerol, others

**Storage:** -20 °C

**Storage Comment:** at -20°C for two years

**Expiry Date:** 24 months

## Publications

**Product cited in:** Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)

## Images

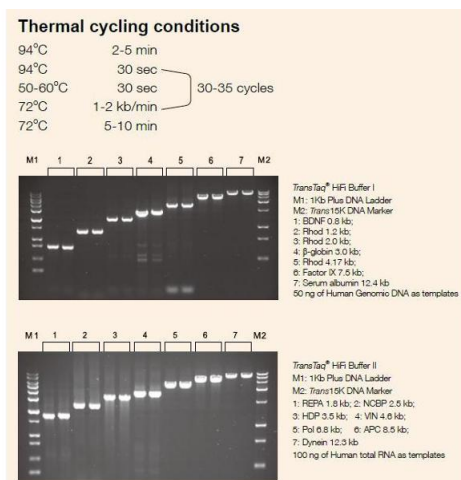


Image 1.

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