

Datasheet for ABIN5519527

TransStart® FastPfu DNA Polymerase

3 Images

Overview

Quantity:	250 units
Application:	Polymerase Chain Reaction (PCR)

Product Details

Purpose:	TransStart® FastPfu DNA Polymerase is a fast, high fidelity and high processivity hot start DNA polymerase.
Brand:	TransStart®
Characteristics:	<ul style="list-style-type: none">- Extension rate is about 2-4 kb/min.- TransStart® FastPfu DNA Polymerase offers 54-fold fidelity as compared to EasyTaq® DNA Polymerase.- PCR products can be directly cloned into pEASY®-Blunt vectors.- Amplification of genomic DNA fragment up to 15 kb.- Amplification of plasmid DNA fragment up to 20 kb.
Components:	DNA Polymerase, 10X Pfu Buffer, PCR Stimulant, 6X DNA Loading Buffer, 50 mM MgSO ₄
Unit Definition:	One unit of TransStart® FastPfu DNA Polymerase incorporates 10 nmol of deoxyribonucleotide into acid-precipitable material in 30 minutes at 74°C.

Application Details

Application Notes:	High fidelity PCR, High yield and fast PCR, Blunt end cloning, Site-directed mutagenesis, Complex templates
Comment:	TransStart® FastPfu 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 TransStart® FastPfu DNA Polymerase has been assayed for amplification efficiency to amplify p53 gene from 10 ng of human genomic DNA.

Order at www.genomics-online.com

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Application Details

Restrictions: For Research Use only

Handling

Buffer: Storage Buffer: 50 mM Tris-HCl (pH 8.2), 0.1 mM EDTA, 1 mM DTT, Stabilizers, 50 % glycerol
5xTransStart® FastPfu Buffer with 20 mM MgSO4: 100 mM Tris-SO4 (pH 9.2), 50 mM (NH4)2SO4, 200 mM KCl, 10 mM MgSO4, 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

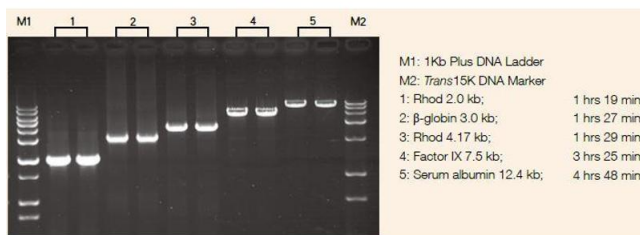


Image 1.

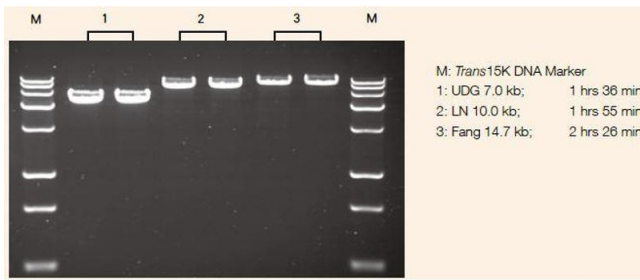


Image 2.

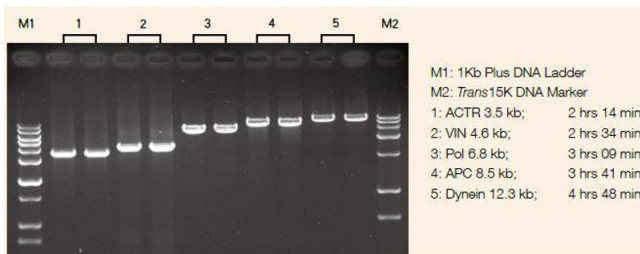


Image 3.