Datasheet for ABIN5519530

TransStart® FastPfu DNA Polymerase (with 2.5 mM dNTPs)

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:	- 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, 2.5 mM dNTPs, PCR Stimulant, 6X DNA Loading Buffer, 50 mM MgSO4
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.

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)