

Datasheet for ABIN3188231

DNA Polymerase I Large (Klenow) Fragment

Overview

Quantity:	500 U
Application:	DNA Amplification (DNA Amp)

Product Details

Characteristics:	DNA Polymerase I Large (Klenow) Fragment is the large fragment of E. coli DNA Polymerase I (abm Cat. No. G469). The Klenow Fragment retains the DNA-dependent DNA polymerase activity of the E. coli DNA Polymerase I but lacks the 5'→3' <i>exonuclease activity</i> . <i>With its inherent 3'→5' exonuclease activity, Klenow possesses the polymerization fidelity of the holoenzyme without degrading 5'-termini.</i>
Components:	Enzyme supplied with 10X Reaction Buffer
Unit Definition:	One unit is defined as the amount of DNA Polymerase I Large (Klenow) Fragment that catalyzes the incorporation of 10 nmol of dNTP into acid insoluble material in 30 minutes at 37°C using poly(dA-dT):poly(dA-dT) as a template:primer.

Application Details

Comment:	<ul style="list-style-type: none">• DNA blunting by filling in 5' overhangs with unlabeled or labeled dNTPs• cDNA secondstrand synthesis• Generate singlestranded DNA probes using random primers• Sitedirected DNA mutagenesis using synthetic oligonucleotides• Dideoxy DNA sequencing of single or doublestranded DNA templates• <i>3'→5' exonuclease activity can blunt a 3' overhang</i>
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Restrictions:	For Research Use only
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Handling

Concentration:	5 U/μL
Buffer:	25 mM Tris-HCl (pH 7.5), 0.1 mM EDTA, 1 mM DTT, and 50 % (v/v) Glycerol.

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Handling

Storage: -20 °C

Publications

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