

Pfu DNA Polymerase Recombinant Protein



RPPB2193

Product Information Protein Information

Product SKU:

RPPB2193

Accession:

P61875

Host:

Escherichia Coli.

Protein description:

Pfu DNA Polymerase is a thermo-stable enzyme having a Mw of about 90kDa. Pfu DNA Polymerase is derived from E. coli that and cloned from Pyrococcus furiosus strain Vc1 DSM3638. Pfu DNA Polymerase replicates DNA at 75°C, catalyzing the polymerization of nucleotides into duplex DNA in the 5' to 3' direction in the existence of magnesium. Pfu DNA Polymerase possesses 3' to 5' exonuclease (proofreading) activity. Base misinsertions that take place during polymerization are swiftly removed by the proofreading activity of the polymerase. Therefore, Pfu DNA Polymerase is suggested for use in PCR and primer extension reactions that require high-fidelity synthesis. Pfu DNA Polymerase-generated PCR fragments are blunt-ended.

Appearance:

Sterile liquid formulation.

Synonyms:

DNA polymerase, EC 2.7.7.7, Pfu polymerase, Pfu-DNA Polymerase.

Formulation:

50mM Tris-HCl, pH 8.2, 1mM DTT, 0.1mM EDTA, 0.05% CHAPS and 50% glycerol.

Stability:

Pfu DNA Polymerase although stable at 10°C for 5 days, should be stored below -18°C. Please prevent freeze-thaw cycles.