

## Pfu-DNA Polymerase Recombinant

<b>Item Number</b>	rAP-1061
<b>Synonyms</b>	DNA polymerase, EC 2.7.7.7, Pfu polymerase, Pfu-DNA Polymerase.
<b>Description</b>	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
<b>Uniprot Accesion Number</b>	P61875
<b>Amino Acid Sequence</b>	
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile liquid formulation. Pfu DNA Polymerase although stable at 10°C for 5 days, should be stored below -18°C. Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	50mM Tris-HCl, pH 8.2, 1mM DTT, 0.1mM EDTA, 0.05% CHAPS and 50% glycerol.
<b>Application</b>	1. Ideal for high-fidelity amplification. 2. 3'-5' exonuclease activity provides a low error rate. 3. One of the most thermostable DNA polymerases known. 4. Lack of extendase activity means no unwanted 3' overhangs. 5. Optimal for blunt-end PCR cloning. 6
<b>Solubility</b>	
<b>Biological Activity</b>	
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**