



## 2x Pfu DNA Polymerase Mix

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2x Pfu DNA Polymerase Mastermix is a premixed; ready-to-use solution containing Pfu DNA Polymerase; dNTPs; MgSO<sub>4</sub> and Reaction Buffer at optimal concentrations for efficient amplification of DNA templates by PCR. To prepare the final PCR; only primers and template DNA are added. Pfu Mix contributes to highly reproducible PCR by reducing the risk of pipetting errors; miscalculation and contamination.

Pfu DNA polymerase; derived from the hyperthermophilic archae *Pyrococcus furiosus*; has been shown to exhibit superior thermostability and proofreading properties compared to other polymerases. Unlike Taq polymerase; highly thermostable Pfu DNA polymerase possesses 3' to 5' exonuclease proofreading activity that enables the polymerase to correct nucleotide-misincorporation errors. This means that Pfu DNA polymerase-generated PCR fragments will have fewer errors than Taq-generated PCR inserts. Using Pfu DNA polymerase in your PCR reactions results in blunt-ended PCR products; which are ideal for cloning into blunt-ended vectors. Use Pfu polymerase for techniques that require high-fidelity DNA synthesis.

Catalog No.	510013
Size	1mL
Product Category	PCR / qPCR / RT-PCR
Storage/Stability	-20°C/1 year
Shipping	Gel Packs