



# Creative Enzymes

Diagnostic Enzymes

## HiFi Amplification Mix

### Product Information

<b>Cat#</b>	DIA-554
<b>Description</b>	<p>This product is a next-generation high-fidelity PCR premix designed for amplification of NGS libraries. The underlying polymerase is engineered from a Pfu-based DNA polymerase, offering enhanced sensitivity, high amplification efficiency, and broad template compatibility.</p> <p>Its mismatch rate is approximately 1/52 that of Taq DNA polymerase and about 1/6 that of native Pfu polymerase, ensuring accurate and reliable library amplification.</p> <p>The optimized buffer system enables low-bias, high-yield, and stable amplification across a wide range of input amounts. The mix contains all required PCR components and includes primers compatible with Illumina sequencing platforms. A proprietary stabilizer ensures consistent performance after repeated freeze-thaw cycles.</p> <p>Amplification products are blunt-ended and suitable for blunt-end cloning.</p>
<b>Storage</b>	-30 °C to -15 °C
<b>Applications</b>	Illumina platform library amplification.
<b>Product Overview</b>	<p>Convenient usage: Pre-mixed enzyme and buffer, with amplification primers compatible with Illumina sequencing platforms.</p> <p>Supports multiple library types: Works with standard DNA libraries, cfDNA, FFPE DNA, ChIP DNA, amplicon libraries, and transcriptome libraries.</p> <p>Wide input range: Supports DNA inputs from 100 pg to 5 µg.</p> <p>Optimized amplification speed: 30-second extension sufficient for most library amplification needs.</p> <p>Excellent stability: Performance remains unaffected after multiple freeze-thaw cycles or temperature stress.</p>
<b>Package</b>	24 rxns HiFi Amplification Mix: 600 µL PCR Primer Mix 3 for Illumina: 120 µL

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