



**Creative Enzymes**

*Diagnostic Enzymes*

## DNA Library Prep Kit, MGI-Compatible, Version II

### Product Information

<b>Cat#</b>	Kit-066
<b>Description</b>	<p>This enzymatic fragmentation-based DNA library preparation kit is specifically optimized for MGI high-throughput sequencing platforms. Compared with the previous version, the upgraded formulation significantly reduces the proportion of artificial inverted chimera reads in FFPE DNA libraries, thereby improving the reliability of SNV and other variant detection.</p> <p>The kit integrates DNA fragmentation, end repair, and dA-tailing into a single-step reaction. The resulting products require no purification prior to adapter ligation, library enrichment, and size selection, enabling the conversion of 100 pg–1 µg input DNA into sequencing-ready libraries compatible with MGI platforms. It supports DNA from diverse sources and input amounts, with fragment size easily controlled by adjusting fragmentation time. All reagents are subjected to strict quality control and functional validation to ensure stable and reproducible library construction.</p>
<b>Storage</b>	-30 – -15 °C
<b>Applications</b>	PCR and PCR-free library construction; whole-genome sequencing; whole-exome or other targeted capture sequencing; metagenomic sequencing; methylation sequencing; tumor detection.
<b>Product Overview</b>	Reduced false positives: Significantly lowers false-positive rates for SNV and InDel detection, improving variant calling accuracy.
<b>Package</b>	24 rxns FEA Buffer II: 120 µL FEA Enzyme Mix II: 240 µL Rapid Ligation Buffer II: 600 µL Rapid DNA Ligase II: 120 µL High-Fidelity Amplification Mix: 600 µL PCR Primer Mix for Illumina: 120 µL Neutralization Buffer: 120 µL

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Control DNA (100 ng/ $\mu$ L): 10  $\mu$ L

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