



# Creative Enzymes

Diagnostic Enzymes

## DNA Library Prep Kit, MGI-Compatible

### Product Information

<b>Cat#</b>	Kit-065
<b>Description</b>	<p>This DNA library preparation kit is specifically optimized for MGI high-throughput sequencing platforms. It integrates DNA fragmentation, end repair, and dA-tailing into a single reaction, eliminating the need for intermediate purification steps. Reaction products can be directly used for adapter ligation, library enrichment, and size selection, enabling efficient conversion of 100 pg–1 µg input DNA into MGI-compatible sequencing libraries.</p> <p>Mechanical DNA shearing is not required, simplifying the workflow and reducing hands-on time. The kit is suitable for PCR-based library construction and supports DNA from diverse sources and a wide range of input amounts. Desired insert sizes can be obtained by adjusting the fragmentation time. All reagents undergo stringent quality control and functional validation to ensure stable and reproducible library preparation.</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.
<b>Product Overview</b>	<p>Broad compatibility: Easily accommodates different species, varying input amounts, and multiple template types.</p> <p>Simple operation: Desired libraries can be obtained by adjusting fragmentation time based on target insert size.</p> <p>High library yield: Excellent library conversion efficiency and improved sample quality.</p>
<b>Package</b>	24 rxns FEA Buffer: 120 µL FEA Enzyme Mix: 240 µL Rapid Ligation Buffer: 600 µL Rapid DNA Ligase: 120 µL High-Fidelity Amplification Mix: 600 µL PCR Primer Mix for MGI: 120 µL

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Neutralization Buffer: 120  $\mu$ L

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

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