



Creative Enzymes

Diagnostic Enzymes

Broad-Spectrum DNA Library Prep Kit, Illumina-Compatible, Version II

Product Information

Cat#	Kit-063
Description	<p>This DNA library preparation kit is specifically optimized for Illumina high-throughput sequencing platforms. It integrates DNA fragmentation, end repair, and dA-tailing into a single-step reaction, eliminating the need for mechanical DNA shearing. Reaction products require no purification prior to adapter ligation, library enrichment, and size selection, enabling efficient conversion of 100 pg–1 µg input DNA into Illumina-compatible sequencing libraries.</p> <p>The simplified workflow significantly reduces hands-on time and supports both PCR and PCR-free library construction. The kit is compatible with DNA from diverse sources and a wide range of input amounts, with fragment size easily controlled by adjusting fragmentation time.</p>
Storage	-30 – -15 °C
Applications	PCR and PCR-free library construction; whole-genome sequencing; whole-exome or other targeted capture sequencing; metagenomic sequencing.
Product Overview	<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>
Package	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 Illumina: 120 µL Neutralization Buffer: 120 µL

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Control DNA (100 ng/μL): 10 μL

DNA Reagents: 96 rxns (FEA Buffer: 90 μL each; FEA Enzyme Mix: 180 μL each;
Rapid Ligation Buffer 3: 350 μL each; Rapid DNA Ligase: 80 μL each; High-Fidelity
Amplification Mix: 350 μL each; PCR Primer Mix 3 for Illumina: 80 μL each)

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