



Creative Enzymes

Diagnostic Enzymes

Enhanced DNA Library Prep Kit, Illumina- Compatible

Product Information

Cat#	Kit-068
Description	Designed for Illumina sequencing, this kit includes a DNA damage repair module for FFPE samples. It converts 100 pg–1 µg input DNA into sequencing-ready libraries. The DNA repair module effectively restores FFPE-induced DNA damage, such as cytosine deamination, nicks, gaps, base oxidation, and 3'-end blocking, while maintaining compatibility with standard DNA samples. Optimizations in end-repair, ligation, and amplification modules increase library conversion rates and yield, supporting both PCR and PCR-free library construction, as well as targeted capture workflows. All reagents are thoroughly quality-controlled and functionally validated.
Storage	-30 – -15 °C
Applications	Whole-genome sequencing; whole-exome or other targeted capture sequencing; amplicon sequencing; metagenomic sequencing; methylation sequencing.
Product Overview	<p>Efficient DNA damage repair: Effectively repairs base damage, nicks, gaps, and 3'-end blocking lesions.</p> <p>High library construction efficiency: Improved library conversion efficiency and amplification yield.</p> <p>Broad template compatibility: Compatible with gDNA, FFPE DNA, cfDNA, amplicons, and other sample types.</p> <p>Robust performance across sample quality: Excellent performance on FFPE DNA with varying DIN values.</p> <p>Short library preparation time: Single library preparation completed within 90 minutes.</p>
Package	24 rxns DNA Dmage Repair Enzyme: 48 µL End Prep Buffer: 240 µL End Prep Enzyme: 120 µL Rapid Ligation Buffer: 600 µL Rapid DNA Ligase: 120 µL

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High-Fidelity Amplification Mix: 600 μ L

PCR Primer Mix for Illumina: 120 μ L

Control DNA (264 bp, 50 ng/ μ L): 10 μ L

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