



Creative Enzymes

Diagnostic Enzymes

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

Product Information

Cat#	Kit-060
Description	This DNA library preparation kit is specifically optimized for the Illumina high-throughput sequencing platform. It converts 100 pg–1 µg of fragmented double-stranded input DNA into sequencing-ready libraries compatible with Illumina systems. The upgraded version incorporates optimized end-repair, adapter ligation, and library amplification modules, significantly improving library conversion rates for low-quality templates and reducing duplication rates. It is broadly applicable for PCR and PCR-free library construction and is compatible with targeted capture workflows. All reagents are rigorously quality-controlled and functionally validated to ensure stable and reproducible library preparation.
Storage	-30 – -15 °C
Applications	Whole-genome sequencing (WGS); whole-exome sequencing (WES) or other targeted capture sequencing; amplicon sequencing; chromatin immunoprecipitation sequencing (ChIP-seq); metagenomic sequencing; methylation sequencing.
Product Overview	<p>Broad sample compatibility: Compatible not only with conventional samples, but also with low-quality FFPE and cfDNA samples.</p> <p>High library construction efficiency: Delivers higher library conversion rates.</p> <p>Accurate mutation detection: Enables reliable detection of low-frequency variants.</p>
Package	24 rxns End Prep Buffer : 168 µL End Prep Enzyme: 72 µL Rapid Ligation Buffer: 720 µL Rapid DNA Ligase: 240 µL High-Fidelity Amplification Mix: 600 µL PCR Primer Mix for Illumina: 120 µL Control DNA (264 bp, 50 ng/µL): 10 µL DNA Reagents: 96 rxns (End Prep Buffer 2: 130 µL each; End Prep Enzyme 2: 60 µL)

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each; Rapid Ligation Buffer 5: 420 μ L each; Rapid DNA Ligase 2: 150 μ L each; High-Fidelity Amplification Mix 2: 350 μ L each; PCR Primer Mix 3 for Illumina: 80 μ L each)

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