



Creative Enzymes

Diagnostic Enzymes

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

Product Information

Cat#	Kit-059
Description	<p>Optimized for the Illumina platform, this kit supports input DNA from 100 pg to 4 µg. Comprehensive improvements to end-repair, ligation, and amplification modules enhance library conversion efficiency and amplification yield. It is suitable for various sample types, including PCR and PCR-free libraries, and is compatible with targeted capture workflows. All reagents undergo strict quality control and functional verification to ensure reproducible and reliable library construction.</p> <p>Compatible sample types include: genomic DNA (gDNA), cell-free DNA (cfDNA/ctDNA), FFPE DNA, ChIP DNA, and multiplexed amplicons.</p>
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>Shorter library preparation time: Single library preparation completed in as little as 75 minutes.</p> <p>Higher adapter ligation efficiency: Results in improved library conversion rates.</p> <p>Simplified and fast workflow: Pre-mixed reagents minimize hands-on steps and reduce operational errors.</p> <p>Wide input DNA compatibility: Supports starting DNA inputs from 100 pg to 4 µg.</p> <p>Broad sample compatibility: Suitable for fragmented DNA, cfDNA, FFPE DNA, ChIP DNA, and more.</p>
Package	24 rxns End Prep Mix: 360 µL Rapid Ligation Buffer: 600 µL Rapid DNA Ligase: 120 µL High-Fidelity Amplification Mix: 600 µL PCR Primer Mix III for Illumina: 120 µL

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

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