



**Creative Enzymes**

*Diagnostic Enzymes*

## DNA Library Prep Kit, Illumina-Compatible, Version II

### Product Information

<b>Cat#</b>	Kit-050
<b>Description</b>	<p>This kit is specifically designed for Illumina high-throughput sequencing platforms and enables efficient construction of sequencing-ready DNA libraries. Compared with conventional library preparation methods, it employs a transposase-based fragmentation strategy that integrates DNA fragmentation, end repair, and adapter ligation into a single enzymatic reaction. This approach significantly reduces required input DNA amounts and shortens library preparation time.</p> <p>The kit is available in formats optimized for 50 ng, 5 ng, and 1 ng input DNA, allowing flexible selection according to experimental requirements. All reagents are subjected to rigorous quality control and functional validation to ensure reliable, stable, and reproducible library construction.</p>
<b>Storage</b>	-30 – -15 °C
<b>Applications</b>	Transposase-based library preparation; whole-genome sequencing; ATAC-seq; metagenomic sequencing.
<b>Product Overview</b>	<p>Fast single-sample library preparation: Less than 90 minutes per sample.</p> <p>Single-tube enzymatic reaction: Fragmentation and adapter ligation occur simultaneously without mechanical shearing (ultrasound or nebulization).</p> <p>Optimized library amplification: Dedicated polymerase and buffer system ensure high efficiency and uniformity.</p> <p>Low input requirement: Supports starting DNA as low as 1 ng.</p> <p>Flexible kit specifications: Three kit versions based on input DNA amounts.</p> <p>High multiplexing capability: Provides 96 paired-end index combinations.</p>
<b>Package</b>	24 rxns Tagmet Enzyme Mix V50: 120 µL 5x Tagment Buffer L: 240 µL PCR Primer Mix: 120 µL Amplify Enzyme: 24 µL

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5x Amplify Buffer: 240  $\mu$ L

Control DNA (Mouse Genomic DNA, 50 ng/ $\mu$ L): 10 mL

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