

# Universal DNA Library Prep Kit for Illumina V4

## Product Information

<b>Cat#</b>	Kit-060
<b>Description</b>	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.
<b>Storage</b>	-30 °C to -15 °C
<b>Applications</b>	Whole-genome sequencing (WGS); whole-exome sequencing (WES) or other targeted capture sequencing; amplicon sequencing; chromatin immunoprecipitation sequencing (ChIP-seq); metagenomic sequencing; methylation sequencing.
<b>Product Overview</b>	<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>
<b>Package</b>	<p>24 rxns</p> <p>End Prep Buffer 2: 168 µL</p> <p>End Prep Enzyme 2: 72 µL</p> <p>Rapid Ligation Buffer 5: 720 µL</p> <p>Rapid DNA Ligase 2: 240 µL</p> <p>HiFi Amplification Mix 2: 600 µL</p> <p>PCR Primer Mix 3 for Illumina: 120 µL</p> <p>Control DNA (264 bp, 50 ng/µL): 10 µL</p> <p>DNA Reagents: 96 rxns (End Prep Buffer 2: 130 µL each; End Prep Enzyme 2: 60 µL)</p>



**Creative Enzymes**

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each; Raptic Ligation Buffer 5: 420  $\mu$ L each; Rapid DNA Ligase 2: 150  $\mu$ L each; HiFi Amplification Mix 2: 350  $\mu$ L each; PCR Primer Mix 3 for Illumina: 80  $\mu$ L each)

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