

# Universal V8 RNA-seq Library Prep Kit for Illumina

## Product Information

<b>Cat#</b>	Kit-073
<b>Description</b>	<p>This RNA-seq library preparation kit is optimized for Illumina high-throughput sequencing platforms. It provides two types of second-strand cDNA synthesis buffers for standard or strand-specific transcriptome library construction. Second-strand synthesis, end repair, and dA-tailing are combined into a single reaction without intermediate purification, greatly simplifying the workflow and reducing processing time. The optimized reaction system improves library conversion efficiency and supports lower RNA input while maintaining uniform coverage across varying input levels. Magnetic bead-based size selection enables rapid generation of libraries with defined insert sizes to meet diverse experimental requirements. All enzymes and buffers are subject to strict quality control and functional validation to ensure high reproducibility and stability.</p>
<b>Storage</b>	-30 °C to -15 °C
<b>Applications</b>	RNA library preparation; gene expression analysis; single nucleotide variant (SNV) analysis; alternative splicing analysis; fusion gene detection; targeted transcriptome analysis.
<b>Product Overview</b>	<p>Rapid workflow: Simplified operations reduce RNA-seq library prep to 3 hours.</p> <p>High compatibility: Improved success rate for low-input and degraded samples.</p> <p>High quality: Uniform transcript coverage and superior sequencing data.</p>
<b>Package</b>	<p>24 rxns</p> <p>2x Frag/Prime Buffer: 480 µL</p> <p>1st Strand Buffer 3: 168 µL</p> <p>1st Strand Enzyme Mix 3: 48 µL</p> <p>2nd Strand Buffer 2 (with dNTP): 600 µL</p> <p>2nd Strand Enzyme Super Mix 2: 360 µL</p> <p>Rapid Ligation Buffer 4: 600 µL</p> <p>Rapid DNA Ligase 4: 120 µL</p>

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PCR Primer Mix 4: 120  $\mu$ L

2x HF Amplification Mix: 600  $\mu$ L

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