



# Creative Enzymes

Diagnostic Enzymes

## RNA Library Prep Kit, Illumina-Compatible

### Product Information

<b>Cat#</b>	Kit-052
<b>Description</b>	This transposase-based RNA library preparation kit is optimized for Illumina high-throughput sequencing platforms. Compared with conventional RNA library preparation methods, it employs a novel transposase-mediated fragmentation of RNA/cDNA hybrids, converting RNA fragmentation, second-strand synthesis, end repair, dA-tailing, and adaptor ligation into a single enzymatic reaction. This approach significantly reduces required input amounts and shortens library preparation time. The kit supports library construction from 5–20 ng of total RNA, and users may choose either rRNA depletion-based or mRNA-enrichment-based workflows depending on experimental needs.
<b>Storage</b>	-30 – -15 °C
<b>Applications</b>	Transposase-based ultra-fast transcriptome library preparation.
<b>Product Overview</b>	Ultra-fast RNA library preparation: Completion in as short as 2 hours. High microbial detection sensitivity: Detects microorganisms at 1/10,000 abundance. Strict background control: Minimal contaminant microbial signal.
<b>Package</b>	24 rxns Nuclease-free ddH <sub>2</sub> O: 1 mL 5× gDNA wiper Mix: 48 µL 10× RT Mix: 48 µL HiScript III Enzyme Mix: 48 µL Oligo (dT) 20 VN: 24 µL Random hexamers: 24 µL Tn5 VR100: 120 µL Tagment buffer: 240 µL TStop Solution: 48 µL High-Fidelity Amplification Mix: 2x 600 µL TSE: 24 µL

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