



Creative Enzymes

Diagnostic Enzymes

Small RNA Library Prep Kit, Illumina- Compatible, Version II

Product Information

Cat#	Kit-048
Description	<p>This small RNA library preparation kit is optimized for Illumina high-throughput sequencing platforms. The optimized formulation improves kit stability and library yield, particularly at low input levels. It is compatible with 10 ng–1 µg of total RNA from animal or plant samples, as well as ≥1 ng of purified RNA from serum, plasma, or exosomes. Universal adaptors are ligated to the 3' and 5' ends of small RNAs, followed by reverse transcription, PCR amplification, and PAGE or magnetic bead purification to generate sequencing-ready libraries. All enzymes and buffers required for library construction are included and undergo strict quality control and functional validation to ensure high reproducibility and stability.</p>
Storage	<p>RL5 Adaptor: -85 – -65 °C Filtration Column: 15–25 °C The remaining components: -30 – -15 °C</p>
Applications	Small RNA library preparation.
Product Overview	<p>Wide sample compatibility: Supports total RNA from animals, plants, special samples (serum, plasma, exosomes), FFPE RNA, and purified small RNA.</p> <p>Low-input support: 10 ng–1 µg for animal/plant RNA; ≥1 ng for serum, plasma, exosome RNA.</p> <p>Improved library success for special samples: Higher success rate for serum, plasma, and exosome RNA.</p> <p>High effective library yield: Enhanced 3' adapter ligation and reverse transcription efficiency.</p> <p>High-quality sequencing data: Good reproducibility and increased miRNA detection.</p>
Package	<p>24 rxns RL3 Adaptor: 24 µL RL3 Buffer II: 240 µL RL3 Enzyme mix II: 72 µL</p>

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RT Primer: 24 µL
RL5 Adaptor: 24 µL
RL5 Buffer: 24 µL
RL5 Enzyme mix: 60 µL
RT Buffer: 192 µL
RT Enzyme mix II: 48 µL
Amplification mix 3: 1.2 ml
pBR322/Mspl digest DNA marker: 60 µL
6× Loading buffer: 500 µL
Co-precipitator: 120 µL
RNase-free ddH₂O: 500 µL
GE buffer: 6 mL
Filtration column: 24
