



**Creative Enzymes**

*Diagnostic Enzymes*

## One-Tube Multiplex Amplicon Library Preparation Kit

### Product Information

<b>Cat#</b>	Kit-053
<b>Description</b>	<p>This one-tube multiplex amplicon library preparation kit is developed for targeted NGS-based pathogen detection. By integrating one-step, single-tube library construction with ultra-high-multiplex amplification, the kit enables completion of tNGS library preparation in a single PCR reaction. While maintaining high amplification specificity, sensitivity, and uniformity, this workflow eliminates the risk of cross-sample contamination associated with tube opening during multi-round amplification and simplifies operational steps. The kit is compatible with reverse transcription workflows, with a total processing time as short as 3 hours and hands-on time under 1 hour. It supports panels ranging from 1 to 1,000 targets, with GC content between 30% and 80%, and is compatible with mainstream high-throughput sequencing platforms. All raw materials undergo strict background microbial quality control to minimize amplification interference, and comprehensive quality control and functional validation ensure stable and reproducible library construction.</p>
<b>Storage</b>	-30 – -15 °C
<b>Applications</b>	Multiplex amplification of DNA and RNA pathogens, compatible with pathogen templates from various sample types.
<b>Product Overview</b>	<p>One-tube workflow: Single-step library prep without opening tubes, minimizing aerosol contamination.</p> <p>High sensitivity: Detects pathogen input as low as 5 copies.</p> <p>Strict microbial control: Enhanced production process ensures extremely low background contamination.</p>
<b>Package</b>	24 rxns

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