

UltraClean Assemplex One-Step Multiplex Kit

Product Information

Cat#	Kit-053
Description	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.
Storage	-30 °C to -15 °C
Applications	Multiplex amplification of DNA and RNA pathogens, compatible with pathogen templates from various sample types.
Product Overview	One-tube workflow: Single-step library prep without opening tubes, minimizing aerosol contamination. High sensitivity: Detects pathogen input as low as 5 copies. Strict microbial control: Enhanced production process ensures extremely low background contamination.
Package	24 rxns