

## ssDNA Library Prep Kit for Illumina

### Product Information

<b>Cat#</b>	Kit-049
<b>Description</b>	<p>This kit is specifically optimized for single-stranded DNA (ssDNA) library preparation on Illumina high-throughput sequencing platforms. Based on an efficient single-strand ligation strategy, it enables conversion of ssDNA into sequencing-ready libraries. The kit is also compatible with double-stranded DNA (dsDNA) libraries, as well as mixed ssDNA/dsDNA inputs.</p> <p>It supports DNA fragments as short as 40 bp and accommodates input amounts ranging from 10 pg to 250 ng. The kit is particularly suitable for severely damaged, denatured, or degraded DNA samples, making it an ideal solution for challenging or precious samples.</p> <p>The optimized workflow allows library construction to be completed within 2 hours, with less than 30 minutes of hands-on time. It is compatible with automated library preparation systems and downstream target enrichment workflows. All reagents undergo stringent quality control and functional validation to ensure stable and reproducible library preparation.</p>
<b>Storage</b>	Box 1: 2–8 °C Box 2: -30 – -15 °C
<b>Applications</b>	Illumina platform DNA library preparation; single-stranded DNA library preparation.
<b>Product Overview</b>	<p>Rapid workflow: Simple operation, library preparation for a single sample completed in 2 hours.</p> <p>High compatibility: Supports mixed single- and double-stranded DNA and DNA fragments as short as 40 bp.</p> <p>High-quality data: Libraries prepared from 10 pg to 250 ng input yield excellent sequencing performance.</p>
<b>Package</b>	24 rxns Box 1: Dilution Buffer: 5 ml

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Box 2:

3' Ligation Buffer: 240  $\mu$ L  
3' Ligation Enzyme Mix: 120  $\mu$ L  
3' Adapter: 120  $\mu$ L  
Extension Primer: 120  $\mu$ L  
Extension Enzyme Mix: 840  $\mu$ L  
5' Ligation Mix: 240  $\mu$ L  
5' Adapter: 240  $\mu$ L  
HiFi Amplification Mix V1: 600  $\mu$ L

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