

TruePrep DNA Library Prep Kit V2 for Illumina

Product Information

Cat#	Kit-050
Description	<p>This kit is specifically designed for Illumina high-throughput sequencing platforms and enables efficient construction of sequencing-ready DNA libraries. Compared with conventional library preparation methods, it employs a transposase-based fragmentation strategy that integrates DNA fragmentation, end repair, and adapter ligation into a single enzymatic reaction. This approach significantly reduces required input DNA amounts and shortens library preparation time.</p> <p>The kit is available in formats optimized for 50 ng, 5 ng, and 1 ng input DNA, allowing flexible selection according to experimental requirements. All reagents are subjected to rigorous quality control and functional validation to ensure reliable, stable, and reproducible library construction.</p>
Storage	-30 °C to -15 °C
Applications	Transposase-based library preparation; whole-genome sequencing; ATAC-seq; metagenomic sequencing.
Product Overview	<p>Fast single-sample library preparation: Less than 90 minutes per sample.</p> <p>Single-tube enzymatic reaction: Fragmentation and adapter ligation occur simultaneously without mechanical shearing (ultrasound or nebulization).</p> <p>Optimized library amplification: Dedicated polymerase and buffer system ensure high efficiency and uniformity.</p> <p>Low input requirement: Supports starting DNA as low as 1 ng.</p> <p>Flexible kit specifications: Three kit versions based on input DNA amounts.</p> <p>High multiplexing capability: Provides 96 paired-end index combinations.</p>
Package	<p>24 rxns</p> <p>TruePrp Tagmet Enzyme Mix V50: 120 µL</p> <p>5x TruePrp Tagment Buffer L: 240 µL</p> <p>PCR Primer Mix: 120 µL</p> <p>TreuPrep Amplify Enzyme: 24 µL</p>



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5x TreuPrep Amplify Buffer: 240 μ L

Control DNA (Mouse Genomic DNA, 50 ng/ μ L): 10 μ L
