AMPINEXT™ DNA Library Preparation Kit (Illumina)

Complete set of optimized reagents to carry out a successful DNA library preparation.

The AMPINEXT™ DNA Library Preparation Kit (Illumina) is a complete set of optimized reagents to carry out a successful DNA library preparation. The kit is suitable for preparing a DNA library for next generation sequencing applications using an Illumina sequencer, which includes genomic DNA-seq, ChIP-seq, MeDIP/hMeDIP-seq, bisulfite-seq, and targeted re-sequencing. The optimized protocol and components of the kit allow both non-barcoded (singleplexed) and barcoded (multiplexed) DNA libraries to be constructed quickly with reduced bias.

Manuals, SDS & CofA

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- **Fast and streamlined procedure** - The procedure from fragmented DNA to size selection is less than 2 h 30 min.
- **Highly Convenient** - The kit contains all required components for each step of DNA library preparation.
- **Minimized bias** - Ultra HiFi amplification and an optional PCR-free step.
- **Flexibility** - Use for both non-barcoded (singleplexed) and barcoded (multiplexed) DNA library preparation.

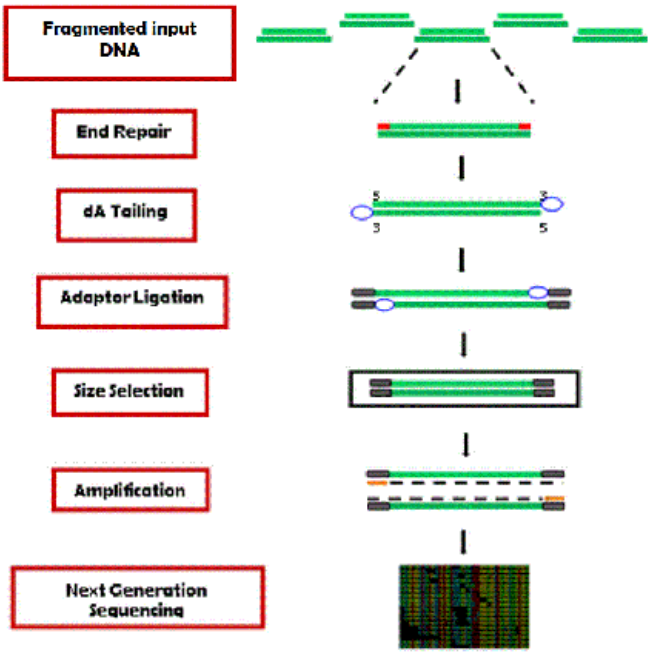


Figure 1. Schematic Procedure for using the AMPINEXT™ DNA Library Preparation Kit (Illumina)

Handling & Storage

Use/Stability Upon receipt: Store the following components at -20°C immediately: 10X End Repair Buffer, End Repair Enzyme Mix,10X dA-Tailing Buffer, Klenow Fragment (3'-5' exo-), 2X Ligation Buffer, T4 DNA Ligase, Adaptors, 2X HiFi PCR Master Mix, Primer U, Primer I, and Elution Buffer. Store the following components at 4°C: MQ Binding Beads. Store all other components at room temperature. □

Shipping Blue Ice

Regulatory Status

RUO - Research Use Only

Product Details

Application Notes A complete set of optimized reagents to carry out a successful DNA library preparation.

Assay Time 2 hours 30 minutes

Contents

10X End Repair Buffer
End Repair Enzyme Mix
10X dA-Tailing Buffer
Klenow Fragment (3'-5' exo$^-$)
2X Ligation Buffer
T4 DNA Ligase
Adaptors (50 µM)
MQ Binding Beads
2X HiFi PCR Master Mix
Primer U (10 µM)
Primer I (10 µM)
Elution Buffer

Technical Info / Product Notes Starting materials can include fragmented dsDNA isolated from various tissue or cell samples, dsDNA enriched from ChIP reactions, MeDIP/hMeDIP reaction, or exon capture. DNA should be relatively free of RNA since large fractions of RNA will impair end repair and dA tailing, resulting in reduced ligation capabilities. Input amount of DNA can be from 5 ng to 1 µg. For optimal preparation, the input amount should be 100 ng to 200 ng. For amplification-free, 500 ng or more is needed.

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