

NGS Library Preparation Kit

High-throughput sequencing, also known as next-generation sequencing (NGS), is characterized by the ability to sequence millions of DNA molecules simultaneously.



ABclonal Technology introduces mRNA library preparation kits and PCR-free DNA library preparation kits that embrace the revolutionary technology.

StepWise DNA Lib Prep Kit

DNA library can be constructed using as little as 500 pg of input DNA. PCR-free libraries can be constructed from 100 ng of high-quality fragmented genomic DNA or 10 ng of circulating cell-free DNA (cfDNA).

ABclonal mRNA-seq Lib Prep Kit

The kit allows mRNA-seq library preparation using 10-1000 ng of input total RNA from a wide variety of eukaryotic species, including animals, plants, and fungi.

Rapid DNA Lib Prep Kit

This kit allows DNA library preparation protocols to be completed in 2 hours by combining end repair and dA preparation steps. PCR-free libraries can be constructed from 100 ng of high-quality fragmented genomic DNA or 10 ng of circulating cfDNA.

Stranded mRNA-seq Lib Prep Kit

First-strand cDNA specificity is enhanced by Actinomycin D included in the kit. Replacing dTTP with dUTP during second-strand synthesis guarantees first-strand cDNA specificity and enables second-strand degradation before PCR amplification.

Highlights

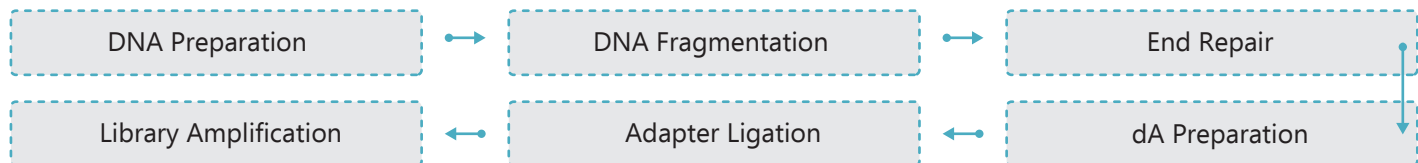
◆/Ease-of-use/◆

All enzymes, nucleotides, and buffers included have the desired concentration and volume. Premixed components minimize number of pipetting operations required.

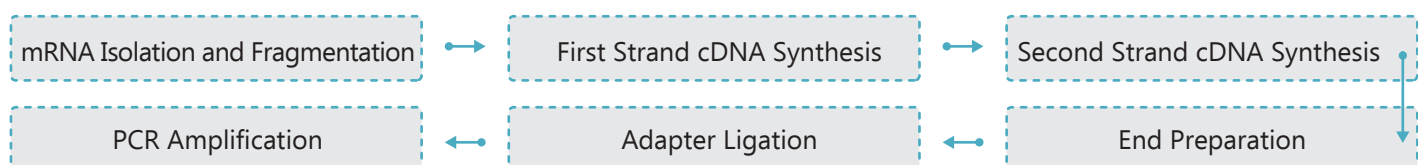
◆/Compatibility/◆

All kits are compatible with Illumina® sequencing platforms.

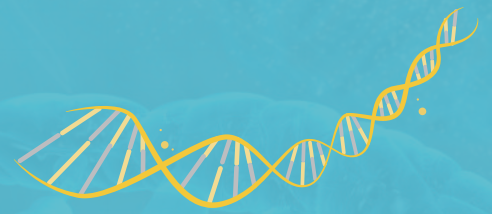
■ DNA Library Preparation



■ mRNA Library Preparation

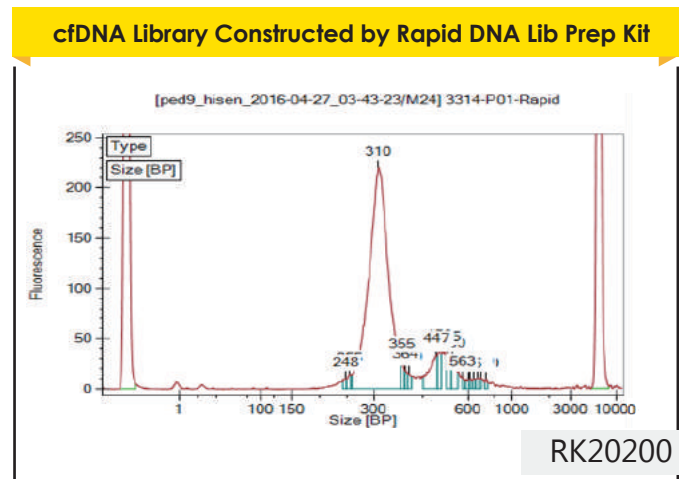
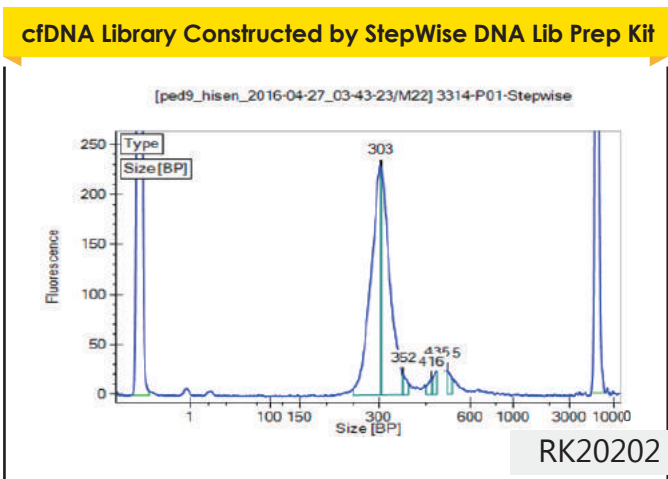


DNA Library Preparation Kits



| Test Results Using cfDNA and FFPE DNA Samples | | | | | |
|---|----------|--|----------------|--------------------------------------|-----------------------------------|
| ID | DNA Type | Sample Name (Includes Repeated Trials) | DNA Input (ng) | StepWise DNA Lib Prep Kit Yield (ng) | Rapid DNA Lib Prep Kit Yield (ng) |
| 1 | cfDNA | 7359P01-1 | 30.0 | 1590 | 1359 |
| 2 | cfDNA | 7359P01-2 | 45.0 | 1710 | 1533 |
| 3 | FFPE DNA | 7450W01-1 | 200.0 | 1668 | 1671 |
| 4 | FFPE DNA | 7450S01-1 | 200.0 | 1320 | 1128 |

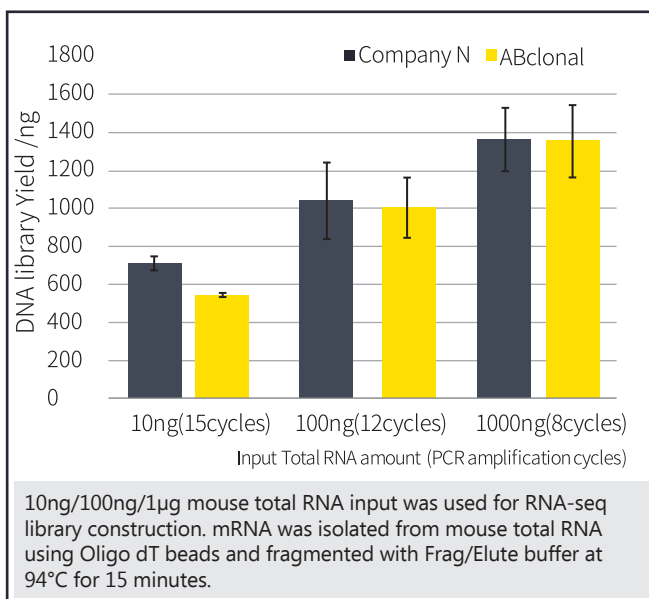
* 32 cfDNA and FFPE DNA samples were used to construct DNA libraries for DNA target capture sequencing. PCR amplification: 7X cycles.



mRNA Library Preparation Kits



■ DNA Library Yield Test



■ DNA Synthesis Efficiency Test

