

2020 NEW  
EXPRESS

# Stranded mRNA-seq Lib Prep Kit for Illumina



Réf. ABC-RK20301-24 (24 rxns)  
Réf. ABC-RK20301-96 (96 rxns)

ABclonal Stranded mRNA-seq Lib Prep Kit for Illumina is suitable for the construction of strand-specific transcriptome libraries for the Illumina sequencing platform, which can meet the requirements of 10 ng~1 µg of eukaryotic total RNA for strand-specific mRNA-seq. The kit adopts RNA truncated adapter, uses index primer for PCR, and adds a unique index to each sample. This kit incorporates dUTP to label the second strand cDNA synthesis process. Before PCR enrichment of the library, the strand is digested with UDG enzyme to ensure that the final sequencing data comes from first strand cDNA, retaining the direction of the mRNA strand performance to meet the demand for strand-specific mRNA-seq.

This kit adopts a modular product portfolio, including five parts: mRNA capture module, cDNA first-strand synthesis module, second-strand synthesis module, DNA library building module and RNA adapter module. Different module combinations can be flexibly selected for construction according to experimental needs.

## Feature

- Retain the orientation information of the mRNA chain to obtain more accurate genetic information;
- Using truncated adapter, better ligation efficiency and fewer joint dimers;
- High library construction efficiency, fewer library amplification cycles, and lower data bias;
- The sequencing data is of high quality and can satisfy a variety of biological data analysis.

## Related Product

### RNA Lib Prep Kit

mRNA-seq Lib Prep Kit for Illumina  
(ABclonal, Cat. RK20302)

Fast RNA-Seq Lib Prep Module  
(ABclonal, Cat. RK20304)

ABclonal Whole RNA-seq Lib Prep Kit for illumina  
(ABclonal, Cat. RK20303)

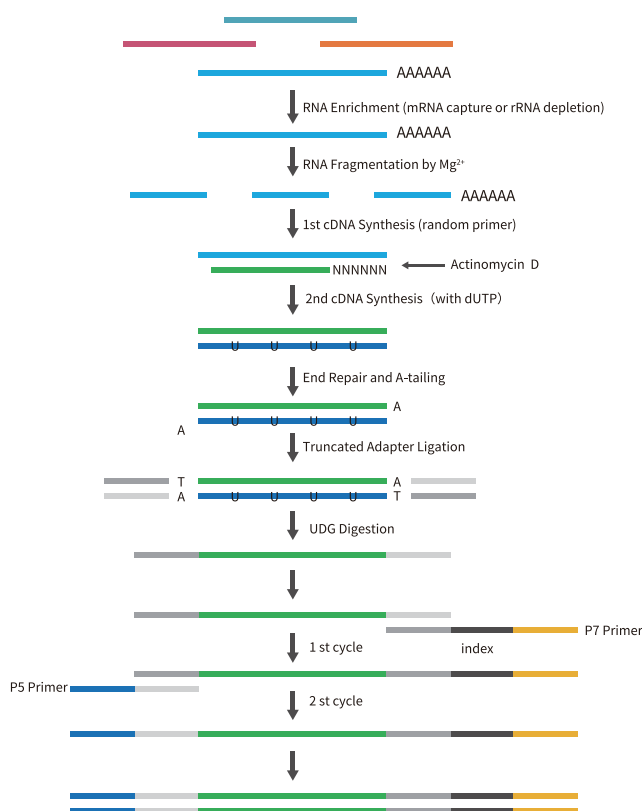
### RNA adapter:

RNA Adapter Module 96 Index for Illumina MiniSet (8 indices)  
(ABclonal, Cat. RK20355)

RNA Adapter Module 96 Index for Illumina MidiSet (24 indices)  
(ABclonal, Cat. RK20356)

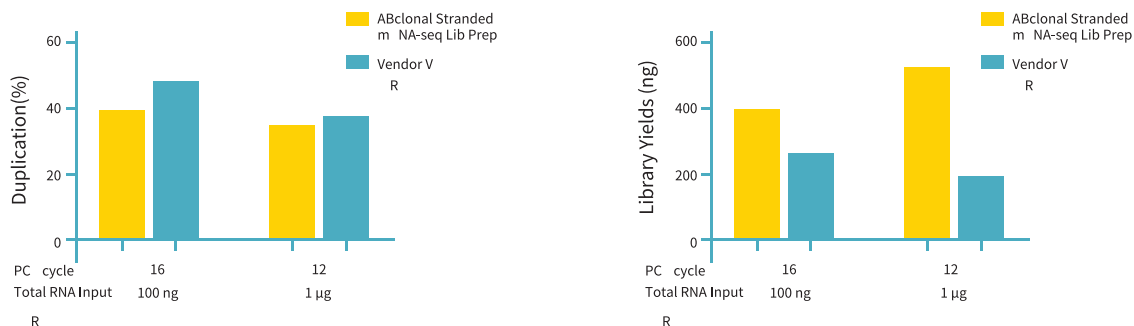
RNA Adapter Module 96 Index for Illumina  
(ABclonal, Cat. RK20351/RK20352)

## Work Flow



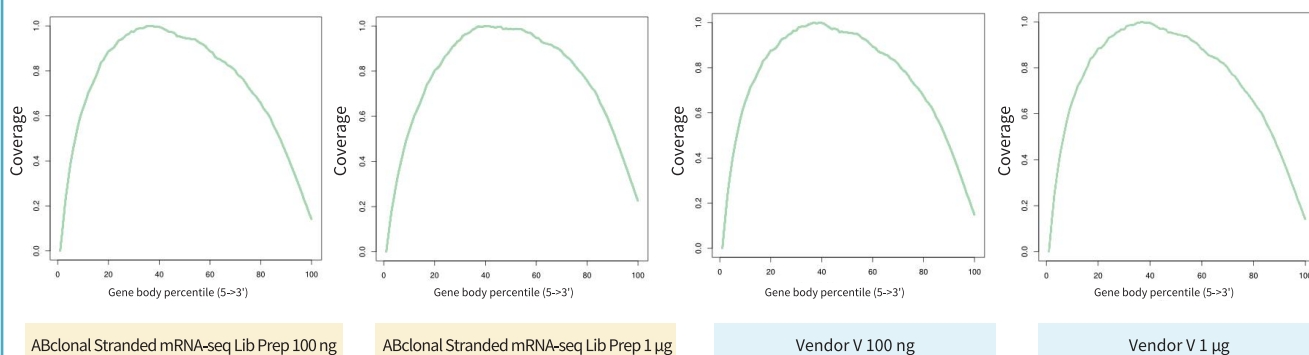
## Data Display

### Yields and duplication



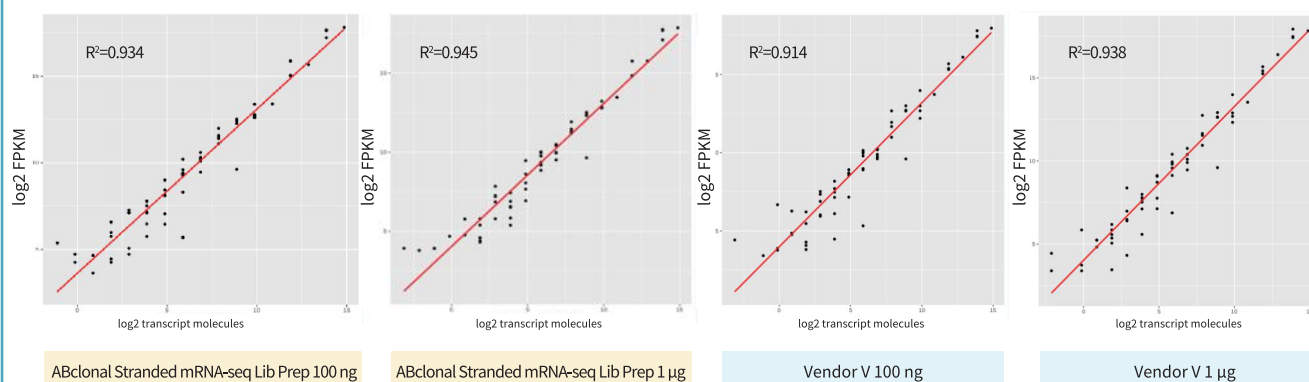
Using 100 ng and 1 µg total RNA samples, the library yield of ABclonal Stranded mRNA-seq Lib Prep is higher than that of competitors, and the duplication rate is lower than that of competitors.

### Gene body coverage



Using 100 ng or 1 µg of total mouse RNA, the gene body coverage analysis showed that ABclonal Stranded mRNA-seq Lib Prep does not show obvious end preference. All experimental operations are carried out in strict accordance with the product instructions.

### ERCC transcript correlation



The same amount of ERCC mix1 was mixed as a external standard (ERCC:ERCC RNA Spike-In Control Mixes, ambion ,4456740) in different amounts of Total RNA input. The sequencing results showed that the ERCC transcript correlation of ABclonal Stranded mRNA-seq Lib Prep was better than that of competitors.

Fragments Per Kilobase of transcript per Million mapped reads (FPKM)  
RNA standard - External RNA Control Consortium (ERCC)

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