

Product Datasheet

Vazyme - Discover-sc WTA Kit V2 (N711-02)

Description

Discover-sc WTA Kit V2 is capable of obtaining sufficient samples for sequence analysis through first-strand cDNA synthesis and amplification using 1 - 1,000 cells or 10 pg - 10 ng of total RNA as templates, thus overcoming the technical difficulty that the conventional mRNA-seq method cannot be used for sequence analysis of trace samples such as single cells due to the low RNA content. The kit employs Oligo dT Primer as the reverse transcription primer for cDNA synthesis. The kit also utilizes the template-switching activity of Discover-sc Reverse Transcriptase to add an adapter sequence at the 3' end of the cDNA, based on which subsequent PCR amplification is performed to obtain full-length cDNA amplification products, effectively avoiding 3' end preferences and rRNA contamination during cDNA synthesis. Discover-sc WTA Kit V2 is an upgraded version developed on the basis of Discover-sc WTA Kit. The upgraded version features substantially improved detection sensitivity and volume compatibility, and is more suitable for the detection of low-abundance genes and low-concentration templates. Generally, one reaction can output 2 - 20 ng of cDNA amplification products.

Storage

BOX 1: Store at -85 ~ -65°C and ship on dry ice. BOX 2: Store at -30 ~ -15°C and transport at ≤0°C

Note

For research use only

Application notes

Low initial amount of template: a single cell or 10pg Total RNA can be used as the initial template for efficient amplification. High amplification sensitivity: the use of LNA technology and carefully optimized reaction system greatly increases the detection of low-expression genes. Good product integrity: Amplify full-length cDNA with double-ended primers to obtain full transcriptome information, avoiding 5' and 3' bias. High success rate of operation: the processing of RNA samples is greatly reduced, thereby avoiding the risk of sample loss to the greatest extent and improving the success rate of operation. Wide volume compatibility: the compatible sample volume can be as high as 5 µl, and it is compatible with different concentrations of templates for amplification.

Expiration Date

12 months from date of receipt.

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