

Datasheet for ABIN4219166

EasyScript Plus™ Reverse Transcriptase

Overview

Quantity: 100 x 20 µL

Application: cDNA Synthesis (cDNA)

Product Details

Purpose: Synthesize cDNA from complex RNA templates (i.e. secondary structures and high GC content) with EasyScript™ Plus Reverse Transcriptase.

Brand: EasyScript Plus™

Specificity: EasyScript Plus™ is a novel recombinant RTase that exhibits much higher efficiency in the first-strand cDNA synthesis from RNA templates with secondary structures and high GC content. EasyScript Plus™ is engineered to perform under high temperatures (50 °C - 55 °C) which facilitate the elimination of secondary structures associated with GC-rich RNA templates. Due to this unique feature, EasyScript Plus™ can synthesize full-length cDNA libraries from RNA templates up to 15 kb in length. In addition, EasyScript Plus™ has outstanding proofreading ability, thus it can be utilized for whole genome sequencing.

Characteristics: Engineered to perform under high temperatures (45 °C - 55 °C), EasyScript™ Plus Reverse Transcriptase can synthesize full-length cDNA libraries from RNA templates up to 15kb in length. In addition, EasyScript Plus™ Reverse Transcriptase has outstanding proofreading ability due to the presence of a fidelity-enhancing subunit, thus making this RTase an excellent choice for whole genome sequencing.

Application Details

Application Notes:

- Synthesizing cDNA from a ssRNA
- DNA primer extension
- Sequencing dsDNA
- Constructing cDNA library
- Constructing libraries for serial analysis for gene expression (SAGE)

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Application Details

- Synthesizing cDNA in rapid amplification of cDNA ends (3' & 5' RACE)
- Producing template for use in RT-PCR or real-time RT-PCR
- Labelling 3'-end of duplex DNA via end-filling reactions
- Generating probes for hybridization

Comment: 100 x 20 µl reactions

Restrictions: For Research Use only

Handling

Concentration: 200 U/µL

Buffer: Enzyme supplied with 5X RT buffer

Storage: -20 °C

Storage Comment: Store all components at -20°C.

Publications

Product cited in: Johnson, Drugan, Miller, Evans: "38" in: , Vol. 1363, Issue Nucleic acids research, pp. 28-39, (1991)