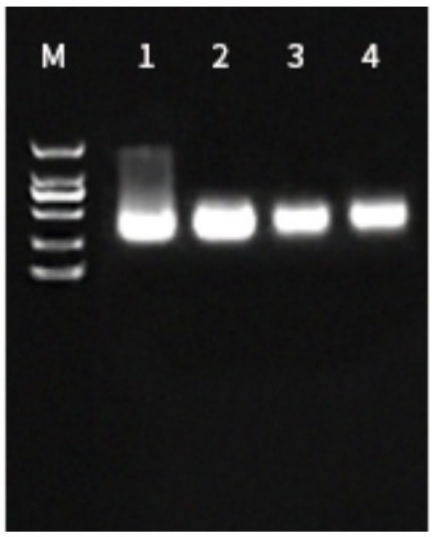
GMP Grade

Ribonuclease R

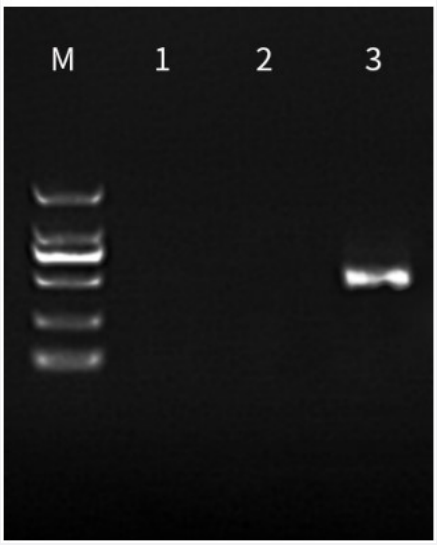
Catalog # DM0014 Size 500 Units

Applications



Functional Study

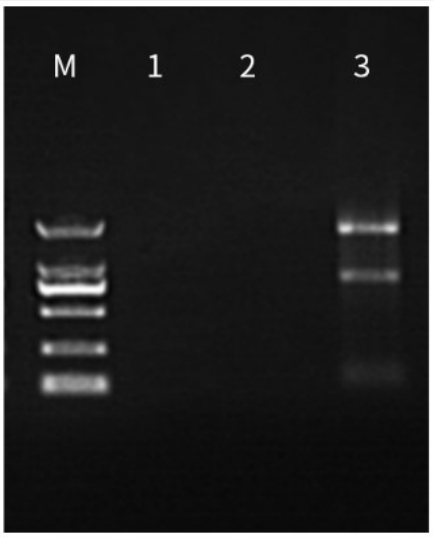
circRNA Digestion Assay M: DNA Ladder Lane 1: Negative control Lane 2: 0.5 U RNase R incubated with 1 µg circRNA Lane 3: 1 U RNase R incubated with 1 µg circRNA Lane 4: 2 U RNase R incubated with 1 µg circRNA



In vitro Transcription

ssRNA Digestion Assay M: DNA Ladder Lane 1: Novoprotein RNase R Lane 2: Competitor RNase R Lane 3: Negative control

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In vitro Transcription

Total RNA Digestion Assay M: DNA Ladder Lane 1: Novoprotein RNase R Lane 2: Competitor RNase R Lane 3: Negative control

Specification

Product Description	Ribonuclease R (RNase R) is a Mg^{2+}-dependent 3'-5' exonuclease. RNA can be cleaved into dinucle otide and trinucleotide gradually from the 3'-5' direction by RNase R. RNase R can digest most of the linear RNA. However, it is difficult to digest circular RNA, lariat RNA and short double-stranded RNA molecules with less than 7 nucleotides of 3' end protrusion.
Form	Liquid
Recommend Usage	Gene expression studies Alternative splicing study Enrichment of circRNA from biological samples Recognition of intronic lariat RNA Identification of exonic circRNA. The optimal working dilution should be determined by the end user.
Regulatory Status	GMP grade
Storage Buffer	50 mM Tris-HCl, 100 mM NaCl, 1 mM DTT, 0.1% Triton X-100, 0.1 mM EDTA, 50% Glycerol (pH7.5 at 25°C).
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.

Applications

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- Functional Study

  circRNA Digestion Assay M: DNA Ladder Lane 1: Negative control Lane 2: 0.5 U RNase R incubated with 1 µg circRNA Lane 3: 1 U RNase R incubated with 1 µg circRNA Lane 4: 2 U RNase R incubated with 1 µg circRNA

- In vitro Transcription

  ssRNA Digestion Assay M: DNA Ladder Lane 1: Novoprotein RNase R Lane 2: Competitor RNase R Lane 3: Negative control

- In vitro Transcription

  Total RNA Digestion Assay M: DNA Ladder Lane 1: Novoprotein RNase R Lane 2: Competitor RNase R Lane 3: Negative control

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