

## Recombinant Poly(A) Polymerase

Cat. No. COV-014

Lot. No. (See product label)

### Introduction

**Description** This product is a polymerase expressed by recombinant E.coli. The enzyme does not depend on the template and can catalyze the sequential incorporation of ATP into the 3' end of RNA in the form of AMP, that is, adding a polyadenosine tail to the 3' end of RNA. Poly(A) structure can improve the stability of RNA and improve the translation efficiency of mRNA in eukaryotic cells. Poly(A) polymerase has high tailing efficiency and can add 20-200 A bases to the 3' end of RNA.

**Applications** Improve the translation efficiency of mRNA in eukaryotic cells. For RNA 3' end labeling. Poly(A) tailing of RNA for cloning or purification.

### Product Information

**Source** E. coli

**Form** Clear liquid

**Purity** ≥95%, no DNase, RNase activity, host DNA residue≤100pg/mg, host protein residue≤50ppm, endotoxin residue≤10EU/mg, no protease activity, sterile, no mycoplasma.

**Activity** 5 U/μL

**Unit Definition** One unit is defined as the amount of enzyme that will incorporate 1 nmol of AMP into RNA in a 20 μl volume in 10 minutes at 37°C.

### Storage and Shipping Information

**Storage** at -20 °C (Avoid repeated freeze-thaw cycles)