

Product Data Sheet

ARCA EGFP mRNA (5-moUTP)

Modification:	ARCA, 5-moUTP, poly A
Concentration	1 mg/ml
Buffer:	1 mM Sodium Citrate, pH 6.4
Storage:	-40°C or below
Expiration Date:	6 months

Description

EGFP (enhanced green fluorescent protein) mRNA can express an enhanced green fluorescence when transfected into cells, it is a direct-detection reporter mRNA with fluorescence emission at 509 nm, used as control to study transfection and expression in mammalian cells by various fluorescence-based assays. Our ARCA EGFP mRNA (5-moUTP) is provided at a concentration of 1mg/ml, it is ARCA capped, polyA-tailed and incorporated with modified nucleotides. Anti-Reverse Cap Analog (ARCA) is a cap analog used during in vitro transcription for the generation of capped transcripts. ARCA obtains the ability only inserting in the proper orientation, results in forming mRNAs that can be translated twice efficiently as those initiated with mCAP. The capping of ARCA ensures high translation efficacy, while the addition of 5-moUTP (5-Methoxy-UTP) and poly(A) tail reduces the host cell immune response and the toxicity to the modified mRNA, thus protects viable mRNA constructs. Polyadenylation (i.e. addition of Poly(A) tail) also plays an important role in the stabilization of RNA in eukaryotes and enhances the efficiency of translation initiation.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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