



IVT mRNA Synthesis User Guide

Dear Customer,

Thank you for your trust and support in us! Before using your custom-synthesized mRNA products, please review the following guidelines to ensure optimal product performance.



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mRNA Handling & Usage

Your mRNA is synthesized via in vitro transcription (IVT) and supplied as a liquid solution, shipped on dry ice. Upon arrival, the mRNA may appear as a white pellet or concentrate at the bottom of the tube.

For first use:

1. Thaw the mRNA on ice.
2. Briefly centrifuge the tube before opening.
3. Aliquot the solution into single -use portions to avoid repeated freeze-thaw cycles.
4. Use only certified RNase -free reagents, tubes, and tips, and maintain RNase -free techniques throughout.

For storage after aliquoting:

- Store at $\leq -70^{\circ}\text{C}$ for long-term stability.
- Avoid repeated thawing and freezing, as this can degrade mRNA integrity.

Applications

The mRNA supplied is suitable for most standard in vitro cell transfection experiments. It can be delivered using a variety of commercially available transfection reagents designed specifically for mRNA, according to manufacturer protocols.

Best practices for RNA work:

- If possible, designate a clean, separate area for RNA handling.
- Before starting, sanitize your bench surface and pipettes with RNase inactivating agents.
- Always wear clean gloves and use RNase -free consumables.

Storage Condition

Upon receipt, store mRNA at $\leq -70^{\circ}\text{C}$. Minimize freeze-thaw cycles to maintain product stability and performance.