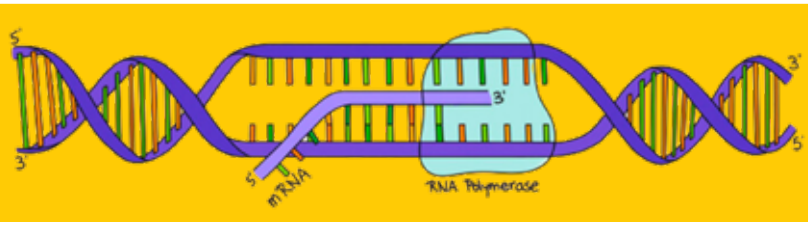
HIMEDIA®
For Life is Precious

HiGenoMB® Unzipping Genes

# In Vitro Transcription (IVT) Kits




## MBIVT001- T7 RNA polymerase

**Purpose:**
To synthesize RNA from DNA using the T7 promoter for research and vaccine applications.

**Key Features:**
- Uses T7 RNA polymerase for RNA synthesis
- Modified versions reduce double-stranded RNA byproducts.
- Ensures cleaner and more efficient RNA production.

## MBIVT002- T7 in vitro transcription kit (low dsRNA)

**Key Features:**
- Minimal dsRNA byproducts.
- Uses mutant T7 RNA polymerase.
- Optimized reaction conditions.

**Purpose:**
Efficient in vitro mRNA synthesis.

## MBIVT003- T7 in vitro transcription kit (N1-Me-pUTP)

**Purpose:**
To facilitate high-yield RNA synthesis with T7 RNA polymerase and enable RNA modifications for specialized applications.

**Key Features:**
- High-yield RNA synthesis with T7 RNA polymerase and T7 promoter template.
- Supports RNA modifications (biotin, dye, radiolabeling).
- Co-transcriptional capping for mRNA synthesis.
- Includes N1-Me-pUTP for specialized RNA production.

## Benefits

| | |
|---|---|
| High-quality RNA | Better yield |
| Consistently Reproducible results | Save time |

## Applications

- **RNA Production:** Synthesize large amounts of RNA for research or diagnostics.
- **Gene Expression Studies:** Create mRNA for studying gene function and protein synthesis.
- **RNA Vaccines:** Used in the development of mRNA vaccines (e.g., COVID-19).
- **CRISPR/Cas9 Research:** Generate RNA guides for gene editing experiments.
- **RNA Probes:** Produce labeled RNA probes for detection and hybridization experiments
- **Functional RNA:** Synthesize RNA for structural or functional studies, including ribozymes and RNA aptamers

www.himedialabs.com
info@himedialabs.com
+91-22-6147 1919

ISO 9001-2015 CERTIFIED ISO 13485-2016 CERTIFIED WHO GMP CERTIFIED CE
...expect only quality from us™