

# PLASMID DNA PRODUCTION FOR THE DEVELOPMENT OF mRNA THERAPY



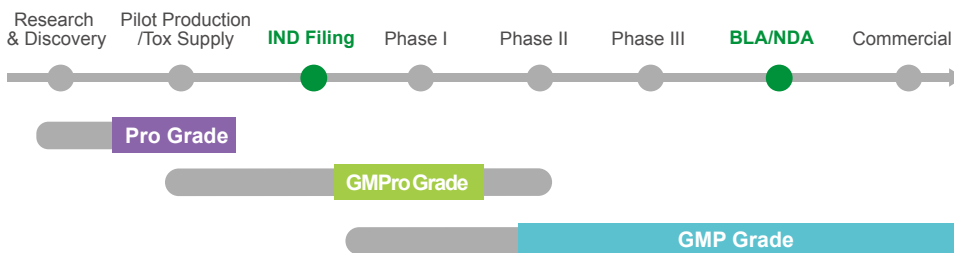
mRNA is considered as a promising therapeutic, as it offers strong safety advantages.

The manufacturing process begins with the generation of a plasmid DNA, which will be further linearized to serve as a template to transcribe the mRNA.

GenScript ProBio is trusted by clients for its extensive experience in plasmid DNA manufacturing. It has assisted numerous clients in providing linearized plasmid for mRNA applications.

## GenScript ProBio Plasmid DNA Services

### Various Offerings Covering the Whole Product Lifecycle



### We are able to offer

**ProPlasmid** manufacturing for pre-clinical stages

**GMPro Plasmid** manufacturing for early phase clinical trials

**GMP plasmid** for late phase clinical trials and commercialization

## Cutting-edge Technologies and Robust Plasmid Platform

### Robust Plasmid Platform

- Licensed strains with sublicense
- Well-established upstream and downstream process, and comprehensive QC platform
- 2 mRNA vaccine projects got IND approval
- 3 mRNA vaccine projects submitted IND

### High Applicability

- Platform verified through **over 15 projects**
- Over **5 batches** of plasmids with a Length of poly A tail between 80 bp~100 bp
- Over **10 batches** of plasmids with a Length of poly A tail **>100 bp**
- **Longest poly A tail ~130 bp**

### Excellent Stability

- Reproducible production in **50L scale**
- **Poly A loss rate <5%**

## Innovation through Collaboration

### mRNA Collaborators

**18 years**

of experience in plasmid accumulation

**7 IND approvals**

from FDA & NMPA

**>20**

plasmid CMC projects for IND application

**>30**

GMPro plasmid batches for clinical phases

**>15**

mRNA customers from the US, China, etc.

### Disclosed Partnerships

**StemiRNA**

GenScript  
**PROBIO**

**ABOGEN**

GenScript  
**PROBIO**

**02.2020** • mRNA project against COVID-19 set up

**04.2020** • Clinical plasmid manufacturing.  
Clinical trials initiate

**03.2020** • 1<sup>st</sup> round of COVID-19 projects set up by CN government

**06.2020** • Clinical plasmid manufacturing.  
Clinical trials initiate

### Company Information

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