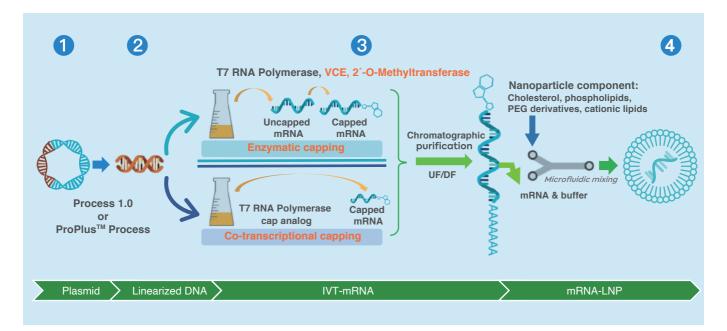
6-Month One-stop Solution for IND Filing

Plasmid → Linearized DNA → IVT-mRNA → mRNA-LNP

mRNA Vaccine Manufacturing Process



mRNA Plasmid Platform

- Process 1.0 and ProPlus[™] process: provide best solution for clients
- Leading linearized DNA platform
- 50+ ongoing projects
- 10+ IND approved globally (US, China, Japan, Korea, etc.)
- 1st BLA & commercial project in China

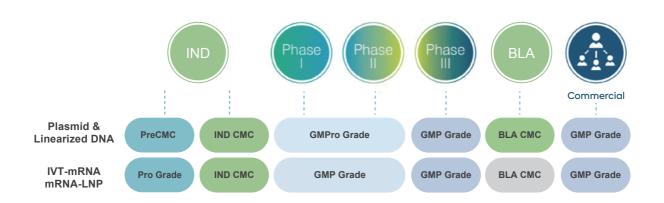
6-Month

One-stop Solution for IND Filing

mRNA Platform

- IVT-mRNA: enzymatic and co-transcriptional capping
- LNP encapsulation: microfluidic technology
- mRNA QC: comprehensive, in-house, compliant with the requirement in US, EU and CN

GenScript ProBio Service Overview - from Plasmid to mRNA





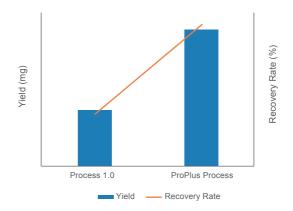
6-Month One-stop Solution for IND Filing

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Plasmid ProPlus™ Process

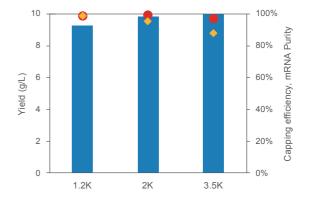
Process 1.0 vs ProPlus™ process

- Plasmid + Linearized DNA vs Linearized DNA
 - Plasmid purification: 3 steps to 1 step (GF+AC+AEX → Capture)
 - Optimization: Purification for linearized DNA
- Compared to process 1.0, the newly developed ProPlus[™] process has 2~3 times increase on yield and recovery rate



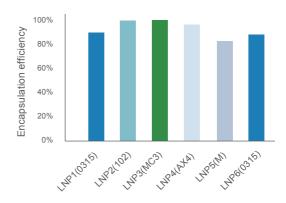
IVT-mRNA Platform

- Suitable for mRNA with different lengths 1.2K ~ 3.5K
- Two capping methods (co-transcriptional and enzymatic capping methods): capping efficiency >90%, up to 99%



mRNA-LNP Platform

- Universal LNP platform with excellent critical quality attributes
- Encapsulation efficiency up to 99.7%





Address

Genscript ProBio USA Inc.
20 Kingsbridge Rd,

Contact

cdmo.us@genscriptprobio.com cdmo.apac@genscriptprobio.com cdmo.eu@genscriptprobio.com