

Services Offered

Therapeutic IVT RNA Development



LNP Encapsulation



GMP Manufacturing



Comparison of Different Types of IVT RNA

	mRNA	circRNA	Sarna
Structure	Linear; usually contains 5' cap, 5' UTR, ORF for GOI, 3' UTR, and polyA tail	Circular; usually contains IRES and ORF for GOI	Linear; usually contains 5' UTR, ORFs for replicase genes and GOI, 3' UTR, and polyA tail
Сар	Requires 5' Cap for stability and ribosome recruitment	No Cap; relies on IRES for ribosome recruitment	Requires 5' Cap for stability and ribosome recruitment
RNA length (nt)	100 ~ 10,000	1,000 ~ 5,000	7,000 ~ 10,000
Stability	Low	High	Low
Can modified nucleotides be added in production?	Yes	No	Yes
Expression level	Low	Medium	High
Expression duration	Short	Medium	Long
Immunogenicity	Low	Medium	High