

Linearized DNA

Provide optimal solution for different projects

ProBio Provides High-quality Linearized DNA

Linearized DNA has wide application in advanced therapy. ProBio can be your partner that supports you with either small-scale or large-scale manufacturing service from preclinical through clinical trials, and eventually at commercial stage with phase-appropriate quality grades, analytics, and regulatory support.

Linearized DNA

ProBio has proven experience from IND to BLA

- Process 1.0 (E.coli fermentation)
- ProPlus[™] Process (*E.coli* fermentation)
- ProSyn™DNA (cell-free technology)

Capability

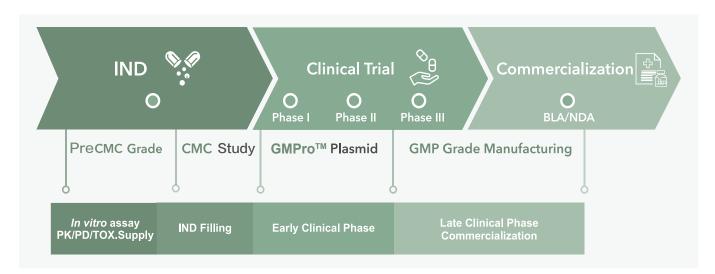
ProBio offers three options in linearized DNA manufacturing, aiming to accelerate projects from preclinical to commercial stages.

Capacity

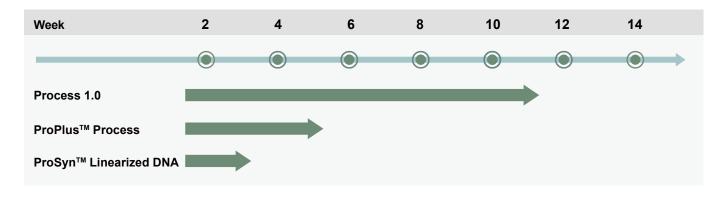
Our state-of-the-art, GMP, multi-production line facility is specially designed to enable your advanced therapy

- E.coli fermentation (Process 1.0 & ProPlus™ Process)
 - √ GMP Grade: up to 300L fermentation scale
- Cell-free technology (ProSyn[™] DNA)
 - √ 0.5mg ~ 25mg
- GMP suites specifically designed for efficient production

Integrated One-stop CDMO Solution: Preclinical to GMP Manufacturing



One Batch Linearized DNA Manufacturing



ProBio

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Technical Platforms for Linearized DNA

Process 1.0 (E. coli Fermentation)

Plasmid	Plasmid construction	Fermentation	Harvest	Lysis	Purification	QC release
Linearized DNA	Enzyme digestion	Chromatograph purification	Concentration	Sterile filtration	Formulation	QC release

ProPlus™ Process (E. coli Fermentation)

Linearized DNA	Plasmid construction	Fermentat	ion	Harvest		Lysis	Ø
							Capture
QC release	Formulation	Sterile filtration	Concentration		tograph cation	Enzyme digestion	Ü

ProSyn™ DNA (Cell-free Technology)

	ProSyn™ DNA	Plasmid construction	Rolling circle amplification (RCA)	Enzyme digestion	Chromatographic purification	UF/DF	Sterile filtration	Formulation	QC release	
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Process 1.0

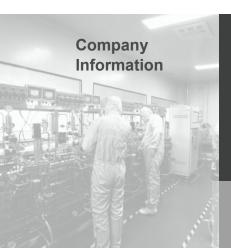
- Plasmid manufacturing and QC release
- Linearized DNA manufacturing and QC release
- Suitable for high copy plasmid with high yield

ProPlus™ Process

- Linearized DNA manufacturing and QC release
- Less purification steps, improving recovery rate
- Final yield increases 2~3 times
- Suitable for low copy plasmid

ProSyn™ DNA

- RCA + enzyme digestion (non cell bank)
- 10⁻⁶~10⁻⁷ low error rate
- Proprietary PowerStarry[™] Primer
 Pool: stable structure and high universality
- Suitable for small-scale (≤25mg)
 GMP requirement



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