

## Our Capabilities

### Bioanalytical Method Development

- Immunoassays
- Molecular Assays
- Chromatography Methods
- Cell-Based Bioassays

### Bio-Molecular Development

- Bacterial Cell Lines
- Plasmids
- Vaccine Candidate Optimizations

### Bio-Process Development

- Formulation and Stability
- Upstream
- Downstream

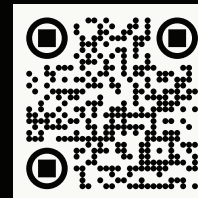
## Our Goals

- To become the leading global contract research organization, renowned for high-quality and specialized biological bioprocessing and bioanalytical development for animal and human vaccines and other biotherapeutics.
- To empower our clients with cost-effective and efficient solutions to swiftly bring innovative biotherapeutics to the market.
- To foster collaborative partnerships and deliver tailored solutions that address our clients' unique challenges.

## Our Mission

To accelerate time-to-market and regulatory approval for innovative biotherapeutics.

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**Pegasus Bio** is a CRO company dedicated to advancing bioprocess and bioanalytical assay development for biological therapeutics, including animal and human vaccines. Our innovative approaches and optimized processes ensure the production of biologicals with the highest standards of quality, safety, and efficacy, enabling our clients to bring groundbreaking vaccines and other biotherapeutics to market faster.

Pegasus Bio was founded in 2019 by scientific R&D leaders from a leading global animal pharma company where the world's first DNA vaccine approved in EU was created and commercialized.

# Revolutionizing Plasmid Development

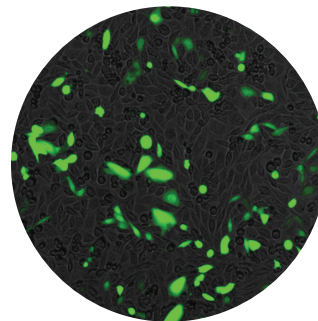
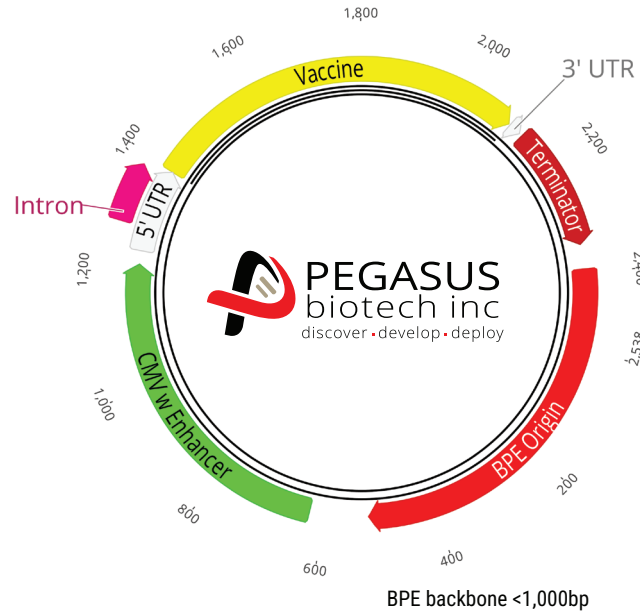


## BPE Platform: About the Technology

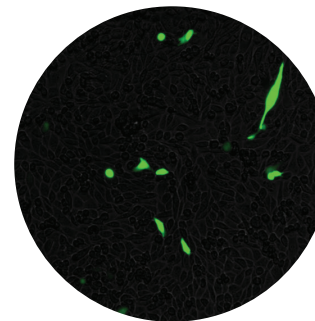
The BPE plasmid technology incorporates a proprietary bacterial origin combined with genetically modified E. coli, enabling superior plasmid production at a fraction of traditional costs. Its plug-and-play design allows rapid gene insertion, significantly reducing development timelines.

## Competitive Advantages

- ➔ **Cost-Effectiveness:** Designed to be the industry's most affordable plasmid technology, BPE reduces manufacturing costs significantly compared to competitors.
- ➔ **Superior Yield:** Achieves up to 3.5 g/L fermentation yield—higher than most commercial plasmids—resulting in extremely low COGS.
- ➔ **Enhanced Safety:** Selection marker-free design and minimal bacterial components (<1,000 bp) improves biosafety for therapeutic applications.
- ➔ **Stability:** Maintains structural integrity at 2–8°C, ensuring reliable performance in diverse environments.
- ➔ **Multivalency:** Compact backbone enables the inclusion of multiple genes, enhancing flexibility for complex applications.



BPE (80 ng)

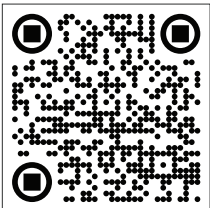


Conventional plasmid (200 ng = 2.5x BPE)

## BPE Value Propositions

Feature	BPE Technology (Pegasus Biotech)	Top Supplier A
Cost	Lowest-cost solution for plasmid manufacturing	High for GMP-grade plasmids
Yield	Up to 3.5 g/L fermentation yield	3.5 g/L with a platform that must be used at combination of two technologies (not all in one unit)
Safety	Selection marker-free, minimal bacterial DNA (<1,000 bp)	Offers antibiotic-free plasmids
Stability	Stable at 2–8°C	Offers advanced storage and distribution options
Multivalent Capability	Supports multiple genes in a compact design	Not explicitly designed for multivalency
Applications	DNA vaccines, gene therapy, and biopharmaceuticals	Focuses on viral vector plasmids and gene therapy
Scalability	Easily scalable for industrial and clinical needs	High scalability with ISO-classified facilities

Characteristics	Conventional Plasmid Technology	Novel DNA Technology (e.g. synthetic DNA)	mRNA	Pegasus BPE
Vaccine Development Time (CMC)	Short-medium	Short-medium	Short	Short
COGS	High	Very High	High	Very low/Low
Safety Profile	Variable	Excellent	Excellent	Excellent
Multivalent	Yes	Yes	In Development	Yes
Storage/Shelf-life	2–8°C/Long	2–8°C/Uncertain	-80°C/Short	2–8°C/Long



Learn more about our BPE technology on our website.