FORMsight^AI OPTIMIZE

FORM BIO™

Enhance Constructs for Ideal Dose Yield, Safety and Cost

FORMsight^AI OPTIMIZE enables cell and gene therapy developers to explore new derivatives of their constructs to ensure the greatest predicted likelihood of manufacturing success, while ensuring cost efficiency.

Proven AI-powered benefits of FORMsight^AI OPTIMIZE:

- **Improve safety & dose yield** by ensuring optimal capsid fill rate
- **Extend IP protection** by filing fresh patents on newly optimized constructs
- **Reduce costs** by avoiding expensive bioreactor runs on suboptimal constructs
- **Save time** by reducing the number of test manufacturing cycles for a therapy candidate

THE OPTIMAL CONSTRUCT BLUEPRINT FOR YOUR THERAPY

Easily build the specific elements for your new construct, including the type of therapeutic gene, the promoter and enhancer sequences to control gene expression and viral vector.

MINIMIZED TRUNCATION PROPENSITY

Leverage deep learning technology to minimize truncation propensity and improve reproducibility of the manufacturing process, reducing the potential for batch variability.

MAXIMIZED PREDICTED FULL READS

Apply FORMsight^AI's breakthrough machine learning models to improve predicted full reads and increase the consistency and quality of the therapeutic output.

END-TO-END AI-DRIVEN ANALYSIS

Further algorithmic modeling, including codon optimization, CpG island detection and hairpin analysis, can predict likelihood of manufacturing success and cost efficiency.

Example pre- and post-optimization comparison of truncation propensities

PRE-OPT   POST-OPT
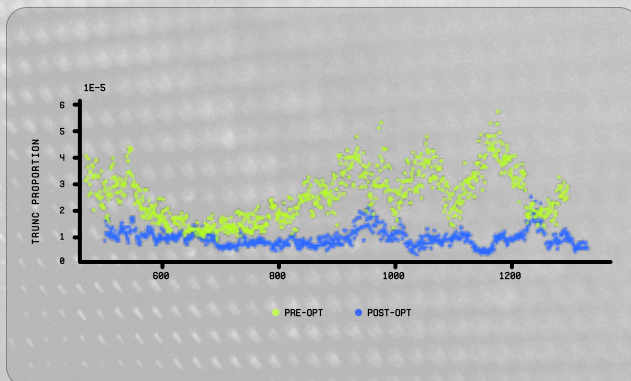
Example improvements on a publicly traded gene therapy company's AAV construct

PREDICTED
18%↑
INCREASE IN FULL READS

PREDICTED
70%↓
DECREASE IN TRUNCATIONS
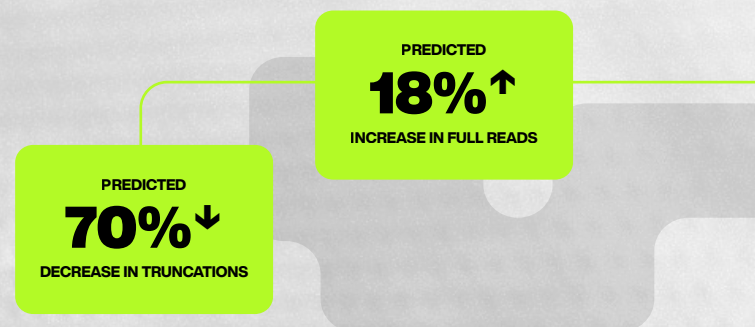
Ready to accelerate your cell and gene therapy development?

Connect with our team today learn how Form Bio can help you go further and faster.

Learn more   FORMBIO.COM