Clonal Genes

Unmatched scale. Exceptional quality. Impossibly fast.

At Twist Bioscience, we recognize the pivotal role that fast, high-quality, and dependable gene synthesis plays in your research. That's why we made gene synthesis better with our state-of-the-art silicon-based DNA writing platform and Factory of the Future. It's designed to deliver DNA exactly how you need it and comes with fast turnaround times, uncompromised quality, and PhD-level scientific support.

Our Clonal Genes are specifically tailored to your research needs. Configure your gene synthesis projects directly in your Twist Bioscience account and get started with confidence, knowing our NGS-sequence verification delivers perfect Clonal Genes every time.

When timelines are tight, opt for our Express Service and achieve your goals even faster.

KEY BENEFITS

Your sequence, your way

You choose:

- Plasmid vector: catalog or custom
- Insertion site
- DNA scale
- Buffer & normalization
- Transfection-grade or endotoxin-free
- Tubes or plates
- Glycerol stocks

Scalable synthesis, rapid turnaround time

- Express starts at 5 business days*
- Standard starts at 10 business days*
- Turnaround times listed above remain the same regardless of order size, gene length, or vector

Seamless ordering, industry-leading prices

- From 9¢ per base
- Streamlined online ordering and real-time online order tracking
- PhD-level consultation for building and optimizing gene sequences

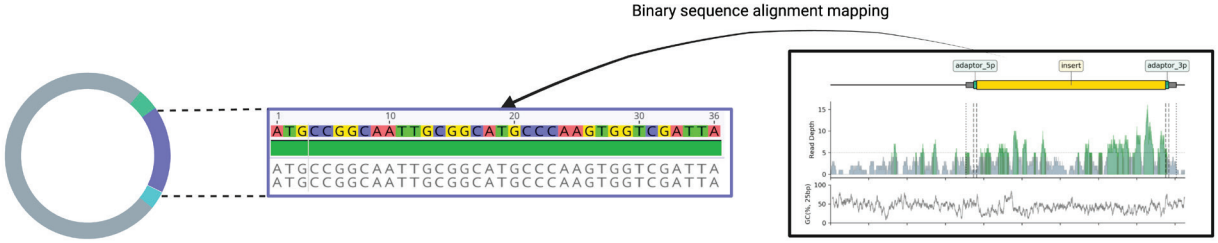
Accelerate your research with Twist Express Gene Synthesis

For Research Use Only. Not for use in diagnostic procedures

Perfect sequences, every time

Twist Bioscience's high-throughput, silicon-based platform miniaturized the chemistry required for DNA synthesis. This drastically reduces the reaction volumes by a factor of 1,000,000 while increasing throughput by a factor of 1,000. This enables the daily synthesis of thousands of high-quality genes of varying complexities to meet all your DNA needs.

Clonal Genes are made by cloning an insert (synthesized sequence) into a vector (non-synthesized sequence). After synthesis and cloning, we use NGS to verify that the insert is 100% sequence perfect. The figure below showcases an example of an error-free clone. It displays sufficient read depth across the entire plasmid, informing us that no SNPs or indels are present in the final construct.



Specifications

- 0.3 to 5.0 kb cloned into your vector of choice
- Twist Catalog Vectors & Custom Vectors
- 100% sequence perfect, NGS-verified sequences

DNA PREP SCALES	STANDARD TURNAROUND TIME[1]	EXPRESS TURNAROUND TIME[1]	MOLECULAR GRADE[2]	TRANSFECTION GRADE[2]	ENDOTOXIN- FREE[2]	TYPICAL YIELD FOR HIGH COPY VECTORS
50 ng – 2 µg	10 – 15	5 – 7	✓	–	–	1.6 µg
2 µg – 10 µg	10 – 15	5 – 7	✓	–	–	8.0 µg
10 µg – 100 µg	13 – 20	8 – 12	–	✓	✓	100 µg
100 µg – 1 mg	13 – 20	8 – 12	–	✓	✓	500 µg

[1] Turnaround time is shown in business days and includes synthesis, cloning, and DNA preparation at each DNA prep scale.
[2] Endotoxin specification: Molecular grade (no endotoxin specification), transfection grade (<10 µg), endotoxin-free (<0.1 EU/µg)

*Turnaround time for Express Genes starts at 5 – 7 business days and standard Clonal Genes starts at 10 – 15 business days. Turnaround time increases with select options and 10 µg – 100 µg and 100 µg – 1 mg DNA Prep Scales.

YOU DESIGN IT, WE BUILD IT. Get in touch at **sales@twistbioscience.com** or learn more at **twistbioscience.com**