

Unlock Breakthroughs with Ansa Clonal DNA and Ansa DNA Fragments

Ultra-rapid, enzymatic synthesis enables the delivery of complex DNA sequences up to 50 kb.

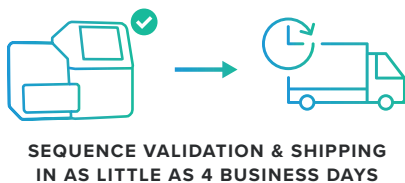
Complex DNA for Your Most Ambitious Projects

Ansa Biotechnologies' proprietary synthesis platform allows for rapid enzymatic production of the industry's longest complex DNA sequences, including those with extreme GC content, repeats, hairpins, homopolymers, and more.

All Ansa products are manufactured in the USA.



Features of Complex Sequences



Industry-Leading Turnaround Times

Ansa is helping to advance research by delivering previously inaccessible DNA sequences in as little as four business days. Unlike conventional vendors that have to assemble very small oligos to create their DNA, Ansa is able to directly synthesize high-quality, complex DNA sequences from 900-base oligos.

Novel Enzymatic DNA Synthesis Method

Ansa's terminal deoxynucleotidyl transferase (TdT) polymerase-nucleotide conjugates with a tether linker to ensure the controlled one-by-one addition of each base. The technology is:

- ✓ **Capable of synthesizing long and complex sequences**
- ✓ **Fully enzymatic and does not damage DNA during synthesis**
- ✓ **A simple process optimized for speed and reliability**

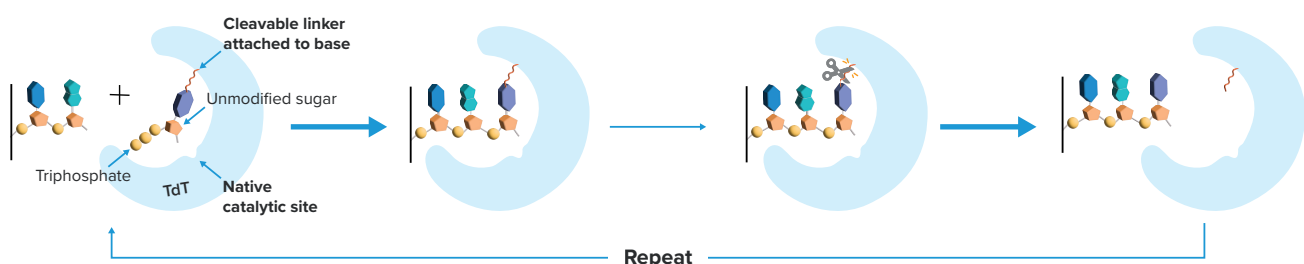
2-Step Enzymatic Synthesis Process

1. Extend

A conjugate extends the primer using its tethered dNTP and then remains covalently attached to the 3' end, blocking other conjugates from further extending the primer.

2. De-block

Cleaving the linker releases TdT from the primer, enabling subsequent extension. The process is repeated to synthesize the desired DNA sequence.



Two Flexible Formats

Ansa offers synthesis of complex DNA up to 50 kb as sequence-perfect clonal DNA or up to 900 bp as sequence-verified linear double-stranded DNA fragments. Ansa Clonal DNA and Ansa DNA Fragments are easy to use and make for simple integration into downstream experimental workflows.



CLONAL DNA



DNA FRAGMENTS

DNA FRAGMENTS			CLONAL DNA (100 BP – 7500 BP)			
DNA sequence length	200 – 600 bp	601 – 900 bp	100 – 1,500 bp	1,501 – 3,500 bp	3,501 – 5,500 bp	5,501 – 7,500 bp
GC content	6% – 90%		10% – 94%			
A or T homopolymers	≤ 140 bp		≤ 140 bp			
C or G homopolymers	≤ 20 bp		≤ 16 bp			
Short tandem repeats	≤ 10 repeat units		≤ 10 repeat units			
Inverted repeats	≤ 50 bp per side		≤ 50 bp per side			
Error rate	1:1000 (typical)		Clonal			
Typical yield	500 ng		1.5 ug			
Vector	NA		Choose from our Catalog Vectors			
Scale-up	NA		10 µg–1 mg of DNA per prep, Standard or Endotoxin-free			
Standard Pricing	\$150 per fragment	\$190 per fragment	\$195 per construct	\$0.13/bp	\$0.17/bp	\$0.28/bp
Complex Pricing			\$375 per construct	\$0.25/bp	\$0.35/bp	\$0.38/bp
Guaranteed Shipping	In as little as 4 business days		In as little as 11 business days			

Introducing 50 kb DNA Synthesis

Let us do the assembly for you.

- **Market-Changing Pricing**
As low as \$0.28 per base pair
- **Speed That Accelerates Discovery**
Standard turnaround times starting at 25 business days
- **Unrivaled Quality You Can Trust**
Fully sequence verified and QC-tested
- **Proudly Made in the USA**
Synthesis, assembly, and quality control all happen domestically

	XL CLONAL DNA (7501 BP – 50 KB)			
DNA sequence length	7,501 bp – 20 kb	20,001 bp – 30 kb	30,001 bp – 40 kb	40,001 bp – 50 kb
GC content	10% – 94%			
A or T homopolymers	≤ 140 bp			
C or G homopolymers	≤ 16 bp			
Short tandem repeats	≤ 10 repeat units			
Inverted repeats	≤ 50 bp per side			
Error rate	Clonal			
Typical yield	1.5 ug			
Vector	pStable-Ind-Chlor-v1.1			
Scale-up	10 µg–1 mg of DNA per prep, Standard or Endotoxin-free			
Pricing (variable/bp)				
Guaranteed Shipping	In as little as 25 business days			

Ansa takes biosecurity seriously and screens all orders for biosecurity hazards using industry-leading practices. We also take data security seriously—your data belongs to you, not us.



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