

gBLOCKS™ GENE FRAGMENTS

| Design, explore, build. Go.



Save reagent costs



Start your project quickly
with dependable shipping



Versatile for a wide range of
downstream applications

gBlocks Gene Fragments are double-stranded DNA fragments, 125–3000 bp in length (Table 1). Synthesized using over 30 years of industry-leading manufacturing knowledge, they are the industry standard for high-fidelity, double-stranded gene fragments and are designed for affordable and easy gene construction or modification, as well as applications such as antibody research, CRISPR-mediated genome editing, qPCR standards, and more.

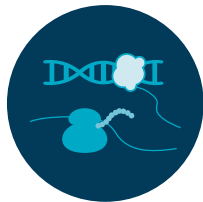
Researchers can use gBlocks Gene Fragments with a variety of cloning methods and do not need to remove any universal linkers before starting experiments.

VERSATILE FOR A WIDE RANGE OF APPLICATIONS

qPCR controls



In vitro transcription



CRISPR editing



Recombinant antibodies



Enzyme substrate



Gene construction



Table 1. gBlocks Gene Fragments product information

Product type	dsDNA fragments
Length	125–3000 bp
Yield	250–1000 ng
Turnaround time	
Tubes	2–8 business days
Plates	10–15 business days
Minimum order	
Tubes	None
Plates	24

> WWW.IDTDNA.COM

ROBUST AND FLEXIBLE ASSEMBLY

gBlocks Gene Fragments are compatible with many cloning and assembly kits that require double-stranded DNA as a starting material, allowing easy assembly of your desired construct sequence into your favorite cloning system (Table 2). gBlocks Gene Fragments are compatible with traditional cloning, Gibson Assembly™ cloning (Synthetic Genomics), Golden Gate, Gateway™ cloning (Thermo Fisher), TOPO™/TA cloning (Thermo Fisher), blunt end cloning, and all other known cloning methods.

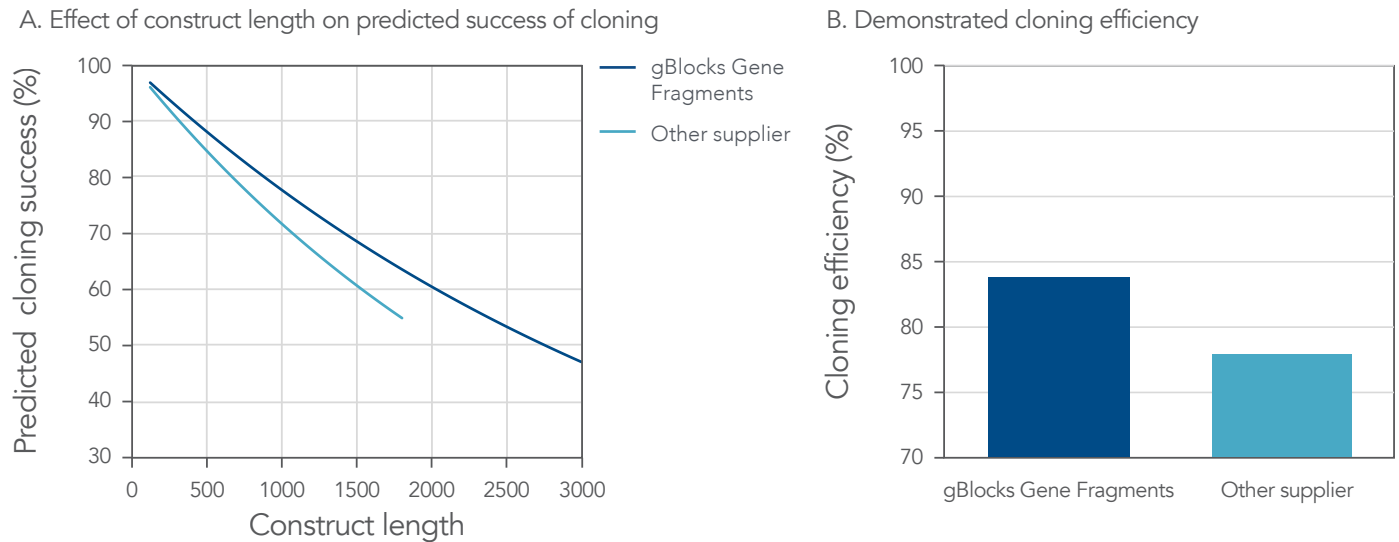


Figure 1. Higher cloning efficiency leads to a reduction in the time and cost to find a correct clone. A) The effect of error rate on predicted cloning success. When compared to another supplier (maximum fragment size of 1800 bp), IDT gBlocks Gene Fragments demonstrate a high probability of first-time cloning success. **B) Demonstrated cloning efficiency.** gBlocks Gene Fragments (223–296 bp) show a significant improvement in cloning efficiency.

Table 2. Pick fewer colonies with gBlocks Gene Fragments

Length (bp)	gBlocks Gene Fragments	Other supplier
125-1000	3	5
1001–2000	3	6–10
2001–3000	4	N/A

QUALITY CONTROL AND SEQUENCE VERIFICATION

Each gBlocks Gene Fragment goes through a quality control and sequence verification process. This includes size verification by capillary electrophoresis and sequence identification by mass spectrometry. This rigorous testing ensures that most recombinant colonies obtained by cloning with gBlocks Gene Fragments will contain the desired insert (Figure 1 and Table 2). More complex sequences may need the end user to sequence additional clones.

FOLLOW THE STATUS OF YOUR ORDER IN REAL TIME

Once orders are placed, the status page gives you real-time information about the manufacturing progress and shipping of your order. Information on the status page is updated every 5 minutes so you can accurately determine if your gBlocks Gene Fragments are being manufactured, preparing for shipping, or are on their way to you.

> FOR MORE INFORMATION, VISIT WWW.IDTDNA.COM/gBLOCKS.

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