

gBlocks Gene Fragments

Accelerate your research with the perfect combination of excellent sequence fidelity, affordability, and application flexibility provided by gBlocks Gene Fragments.

gBlocks Gene Fragments are sequence-verified genomic blocks that have the highest sequence fidelity available and ship in only a few days. Use them for rapid, easy gene construction or modification, or any other application requiring double-stranded DNA.

Popular applications for gBlocks Gene Fragments include CRISPR-based genome editing, recombinant antibody engineering, qPCR and PCR controls, gene construction, enzyme engineering, vaccine research, and high resolution melt (HRM) assays.

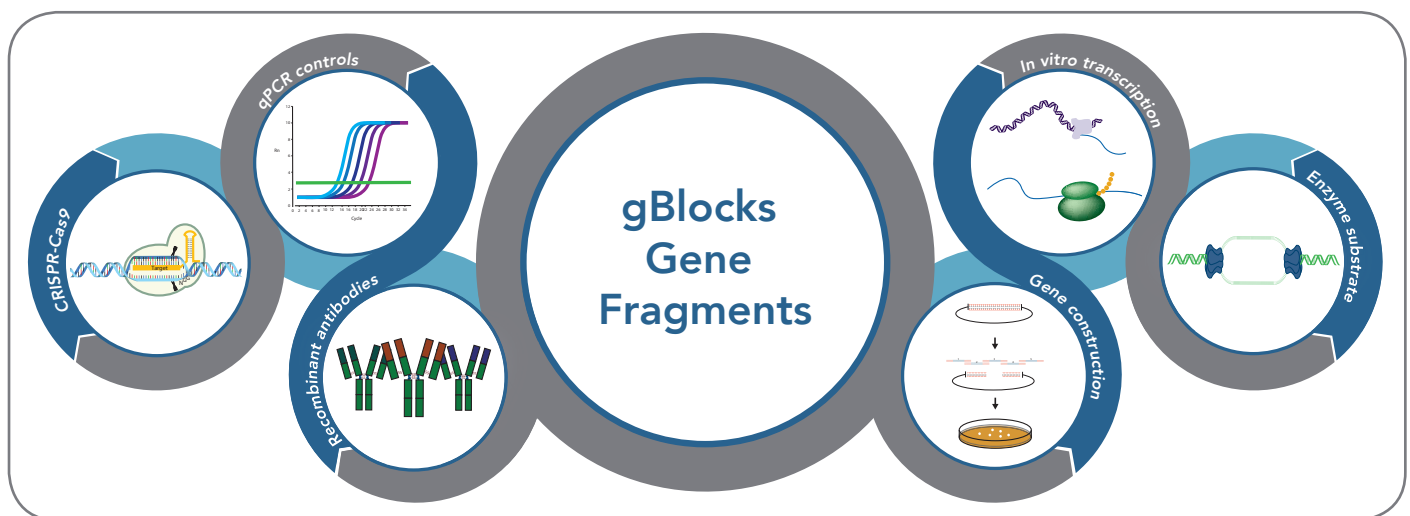
benefits

Save reagent costs with constructs as low as half the price of synthetic genes

Start your projects quickly with shipping in as few as 2 business days

Get the versatility you need for a wide range of applications using our intuitive ordering and optimization tools

Discover more at
www.idtdna.com/gBlocks



Robust and flexible assembly

gBlocks Gene Fragments are compatible with many convenient cloning and assembly kits, such as the Gibson Assembly® and NEBuilder® HiFi kits from New England Biolabs and In-Fusion® Cloning kits from Clontec.

www.idtdna.com

IDT
INTEGRATED DNA TECHNOLOGIES

Quality control and sequence verification

Thorough quality control testing of each gBlocks Gene Fragment ensures consistently high cloning rates for generating recombinant colonies, which average over 80% correct clones even when assembling multiple gBlocks Gene Fragments*. In some cases complex sequences may have reduced fidelity. This is commonly addressed by sequencing additional clones.

* Note: This applies to non-toxic or bioactive sequences. In rare cases of complex sequences or very long fragments, the proportion of correct fragments may fall below 80%.

Designing and ordering gBlocks Gene Fragments online

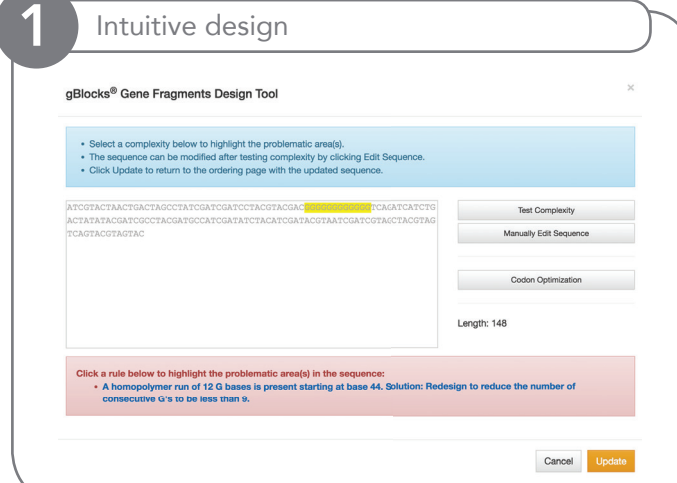
Use the quick and easy gBlocks Gene Fragments ordering tool at www.idtdna.com/gBlocks to paste individual sequences or upload multiple sequences from an Excel file.

Our ordering tool allows you to instantly check your sequences for manufacturing complexity. Problems are highlighted and can be edited within the browser or offline. Codon optimization is also available (Figure 1).

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 (Figure 2).

1 Intuitive design



gBlocks® Gene Fragments Design Tool

- Select a complexity below to highlight the problematic area(s).
- The sequence can be modified after testing complexity by clicking Edit Sequence.
- Click Update to return to the ordering page with the updated sequence.

ATGCTACTAACTGACTACCTATCGATGATCCTACGTACGAC TCAGATCATCTG
ACTATATACGATCGCCTACGATCCATCGATATCTACATCGATACGTAAATGATCGTACCTACGTAG
TCAGTACGTATGAC

Test Complexity
Manually Edit Sequence
Codon Optimization

Length: 148

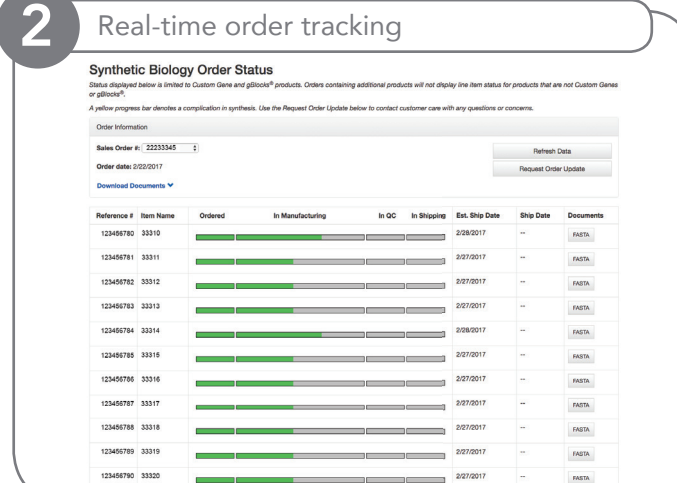
Click a rule below to highlight the problematic area(s) in the sequence:

- A homopolymer run of 12 G bases is present starting at base 44. Solution: Redesign to reduce the number of consecutive G's to be less than 9.

Cancel Update

Figure 1. The gBlocks Gene Fragments Design Tool allows you to check your sequences for complexity and codon optimization during the ordering process.

2 Real-time order tracking



Synthetic Biology Order Status

Status displayed below is limited to Custom Gene and gBlocks® products. Orders containing additional products will not display line item status for products that are not Custom Genes or gBlocks®.

A yellow progress bar denotes a complication in synthesis. Use the Request Order Update below to contact customer care with any questions or concerns.

Order Information

Below Order #: 22253345

Order date: 2/22/2017

Download Documents

| Reference # | Item Name | Ordered | In Manufacturing | In QC | In Shipping | Est. Ship Date | Ship Date | Documents |
|-------------|-----------|---------|------------------|-------|-------------|----------------|-----------|-----------|
| 123456780 | 33310 | | | | | 2/28/2017 | -- | FASTA |
| 123456781 | 33311 | | | | | 2/27/2017 | -- | FASTA |
| 123456782 | 33312 | | | | | 2/27/2017 | -- | FASTA |
| 123456783 | 33313 | | | | | 2/27/2017 | -- | FASTA |
| 123456784 | 33314 | | | | | 2/28/2017 | -- | FASTA |
| 123456785 | 33315 | | | | | 2/27/2017 | -- | FASTA |
| 123456786 | 33316 | | | | | 2/27/2017 | -- | FASTA |
| 123456787 | 33317 | | | | | 2/27/2017 | -- | FASTA |
| 123456788 | 33318 | | | | | 2/27/2017 | -- | FASTA |
| 123456789 | 33319 | | | | | 2/27/2017 | -- | FASTA |
| 123456790 | 33320 | | | | | 2/27/2017 | -- | FASTA |

Figure 2. The Synthetic Biology Order Status page displays the real-time status of IDT Genes and gBlocks Gene Fragments from manufacturing through shipment.

Contact us

For more information about gBlocks Gene Fragments products and ordering, contact genes@idtdna.com.

www.idtdna.com/gBlocks

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