

ENFINIA™ PLASMID DNA

Frequently Asked Questions

Do you screen ENFINIA Plasmid DNA for endotoxins?

No, ENFINIA Plasmid DNA is not screened for endotoxins. Each ENFINIA Plasmid is built from our ENFINIA Linear DNA, produced with our patented cell-free cloning technology, and can be used directly for cell culture applications.

How do I place an order for ENFINIA Plasmid DNA?

New users can use their work email to register for Elegen's Order Submission Portal. Once an account is created, a user can click the "Order Now" button from the "Home" page, select ENFINIA Plasmid DNA, and enter sequences individually or by uploading a file in .XLS, .CSV, .TSV, or FASTA format. All entered sequences will be analyzed for synthesis feasibility based on sequence length and complexity (e.g., GC content, sequence repeats, and homopolymers). If any of your sequences are rejected, a detailed reason is provided. Once billing and shipping information is entered, users can proceed to checkout, where they'll be prompted to enter payment information and accept our terms and conditions. Users will also be asked to acknowledge our biosecurity terms, which comply with the Harmonized Screening Protocol created by the International Gene Synthesis Consortium.

How do you measure the DNA yield of each ENFINIA Plasmid ordered?

We measure the yield with a fluorescence assay. Shipping manifests for all ENFINIA Linear and Plasmid DNA orders will report the measurements from the Thermo Fisher Scientific Quant-iT dsDNA Broad-Range Assay. We recommend re-quantifying the DNA you receive with your preferred method before use.

Which host is used for cloning ENFINIA Plasmid DNA?

ENFINIA Plasmid DNA is cloned in DHbeta E. coli cells. Plasmids containing a pUC19, pBR322, or psaRNA backbone are cloned in the New England Biosciences NEB10-beta competent E. coli cell strain. Plasmids containing a pAAV2 backbone are cloned in the Thermo Fisher Scientific Stbl3 competent E. coli cell strain.

Is ENFINIA Plasmid DNA sequence-verified?

Yes, the entire insert and plasmid backbone is NGS-verified, however, our current sequencing methods cannot provide high-confidence measurements of G/C homopolymers longer than 8 bp and A/T homopolymers longer than 12 bp.

What information will I receive along with my ENFINIA Plasmid DNA order?

The Order Summary for each plasmid order on the Elegen portal is updated upon order completion with copies of the sequence information provided during order creation, the quote used to place your order, and a shipping manifest that includes the full sequence and yield of each plasmid synthesized, as well as recommendations for storage and downstream use.

Can you provide a CoA for ENFINIA Plasmid DNA?

At this time we do not provide a standard certificate of assurance with our shipments, but depending on your specific requirements we may be able to provide a suitable substitute. Please contact our customer support team at customer.support@elegenbio.com for more information.

Will my ENFINIA Plasmid DNA order contain any genomic DNA (gDNA)?

For all ENFINIA Plasmid DNA orders, less than 10% of the total mass of each plasmid in the order may contain genomic DNA.

What restriction enzymes do you use for ENFINIA Plasmid DNA cloning?

We use the Type IIS restriction enzyme PaqCI to assemble ENFINIA Linear DNA fragments into plasmids before cloning. We recommend limiting the number of PaqCI sites within your insert sequence to a maximum of 4 and avoiding multiple sites sharing identical 4 bp overhangs.

Do you offer glycerol stocks of ENFINIA Plasmid DNA?

Currently, we do not provide glycerol stocks of ENFINIA Plasmid DNA. However, we do recommend preparing glycerol stock of your plasmids for long-term storage at -80°C.

How do you ship ENFINIA Plasmid DNA?

ENFINIA Plasmid DNA is shipped in dried format in a 96-well microplate with one sequence per well. The dried DNA is shipped at ambient temperature.

What quantity of ENFINIA Plasmid DNA should I expect for each plasmid ordered?

We guarantee a minimum quantity per plasmid of 50 ng for plasmids containing a pBR322, pAAV2, or psaRNA (low copy) backbone and a minimum of 1 µg for plasmids containing a pUC19 (high copy) backbone.

Where can I find more information on the standard vector backbones you offer for ENFINIA Plasmid DNA?

Product information sheets for Elegen's pBR322, pUC19, psaRNA and pAAV2 (CAG, CMV, hSyn promoters or ITRs only) backbones can be found on our website: elegenbio.com/enfinia-plasmid-dna/

Where can I find detailed acceptance criteria for ENFINIA Plasmid DNA sequence submissions?

Our sequence submission guidelines can be found on our website: elegenbio.com/enfinia-plasmid-dna/

How fast can I receive ENFINIA Plasmid DNA?

Following order confirmation, Standard Complexity ENFINIA Plasmid DNA orders are typically shipped between 10 and 20 business days and High-complexity Plasmid DNA orders are typically shipped between 12 and 22 business days. If your order is confirmed after 6 p.m. ET, production will begin the next business day (Monday through Friday).



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