

KromaTiD



Comprehensive high-quality Plasmid Production for Research, Pre-GMP, and GMP.

Begin with plasmid DNA for Viral Vectors, DNA Vaccines, mRNA production, and cell therapies.



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Dear Colleague,

We at KromaTiD understand the importance of your program's success and the significant value of your research and preclinical endeavors. You can count on our expert team for high-quality plasmid DNA manufacturing.

Our capacity and capabilities are tailored to meet your evolving needs:

1. Three separate production suites.
2. Shaker flasks and single-use bioreactors.
3. Independent air handling system for quality assurance.
4. Supporting services for Clone Identification and Karyotyping QC.
5. Standard formats and fast turnaround option through PlasmidPros.
6. Simplified order process with convenient online ordering, accepting both credit cards and company purchase orders.

Whether you require one or multiple constructs, KromaTiD is here to ensure a seamless supply of plasmid DNA for your research, preclinical and clinical applications.

Our expertise extends from supercoiled and linearized plasmid DNA to viral vectors and synthesizing vectors from sequences. Count on us to be your dedicated partner on your scientific journey."

*Sincerely,
The KromaTiD Team*

Plasmid DNA Manufacturing Solutions

KromaTiD's Plasmid Manufacturing Services offer a versatile range of plasmid DNA options, combining swift delivery with economical pricing. Our dedicated team stands ready to fulfill your plasmid manufacturing requirements at any stage of the development process, whether it's for research, preclinical or clinical production.

Key Advantages:

Diverse Purity Levels: Choose from Research, Transfection, and Low Endotoxin Grades.

Flexible Production Modes: Options include research, pre-GMP, and GMP*.

Seamless Material Compatibility: Provide plasmid DNA as frozen glycerol stock or culture stabs.

Tailored DNA Quantities: Order anywhere from 100ug to 100mg scales as needed.

Expedited Turnaround: Expect quick results without compromising quality with our PlasmidPros offering.

Competitive Pricing: Our services offer cost-effective solutions for your plasmid manufacturing needs.

Comprehensive Documentation and Quality Control: Standard reports and QC data are included.

Customized Testing: Additional tests available upon request to meet your specific requirements.

*KromaTiD plans to launch GMP plasmid services in 2024. Please contact us about your GMP manufacturing needs.

Custom Plasmid DNA Manufacturing

Quality options for plasmid DNA manufacturing for a variety of applications.

Viral Vectors: Our plasmids are engineered to support viral vector production, such as AAV and Lentivirus, for gene therapy and gene delivery applications.

DNA Vaccines: We offer specialized plasmids to aid in the development of DNA vaccines, a cutting-edge approach in modern immunology.

CAR-T Cell Therapy: Plasmids play a crucial role in the advancement of CAR-T cell therapy, a revolutionary treatment for certain cancers and autoimmune diseases.

Genome Editing: Whether you're involved in CRISPR-Cas9, TALENs, or other genome editing technologies, our plasmids are tailored to meet your needs for precise genetic modifications.

Cloning & Vector Synthesis: We provide essential tools for molecular biologists engaged in cloning, vector synthesis, and simplifying complex processes.

High-Throughput Screening: Our plasmids are an essential component in high-throughput screening, facilitating rapid and efficient analysis in various research areas.

mRNA Production: For mRNA-based research and therapeutic development, our plasmids are optimized to meet the demands of this emerging field.

Transfection: Plasmids designed for transfection studies, allowing you to introduce foreign genetic material into cells with ease.

Committed to quality and versatility to ensure that your research and development needs are met with excellence.

Quality Controls in Custom Plasmids

Quality Controls in Custom Plasmid Manufacturing: Ensuring Excellence in Your Research

Custom plasmid manufacturing is vital for a wide range of scientific and industrial applications. Quality controls are crucial for several key reasons:

Reliable Results: Quality controls ensure consistent plasmid DNA quality, vital for dependable outcomes in research and therapeutic applications.

Data Integrity: Quality measures maintain data integrity, bolstering research credibility by reducing variability.

Regulatory Compliance: Rigorous quality control is essential for regulatory approval in biotech and pharma, such as clinical trials and drug development.

Contamination Prevention: Stringent controls safeguard against contamination, preserving sample integrity.

Cost Efficiency: Upfront quality control investment minimizes costly errors and delays.

Research Acceleration: High-quality plasmids expedite research and development by boosting confidence in results.

Reputation and Trust: Consistent delivery of quality plasmids builds trust within industries and among collaborators.

In summary, quality controls in custom plasmid manufacturing are pivotal for research success, integrity, and safety. Prioritizing quality elevates project impact and maintains the highest standards of excellence.

Quality Control

Designed to meet the highest standards of excellence.

Capacity	Capabilities
Separate Production Suites	Multiple Constructs
Shaker flasks and Single-Use Bioreactors	Research Plasmid DNA
Independent Air Handling	Preclinical Plasmid DNA
Support Service - QC G-Band Karyotyping	Clinical Plasmid DNA
Supporting Service - Clone Identification	Commercial Plasmid DNA
Fast Turnaround Through PlasmidPros - Preps	Supercoiled, Linearized, Viral Vector and Synthesizing your Plasmid DNA from a sequence

QUALITY CONTROL OPTIONS					
QC Items	Specification	Measurement Method	Research	Pre-GMP	GMP*
A260/280	1.8-2.0	Nanodrop UV Absorption	Standard	Standard	Standard
Appearance	Clear	Visual Inspection	Standard	Standard	Standard
Concentration	On request, standard is 0.25mg/ml	Nanodrop UV Absorption	Standard	Standard	Standard
Restriction Digest	Matches reference	Gel Digest	Standard	Standard	Standard
Genomic DNA	Not Visible	Gel Digest, qPCR	Request	Standard	Standard
Residual DNA	Not Visible	Gel Digest	Request	Standard	Standard
Endotoxin Assay	<1.0EU/ug plasmid DNA	LAL Assay	Request	Standard	Standard
Sequencing	Matches reference	NGS	Request	Standard	Standard
ITR Integrity	No replication errors	Gel Digest, NGS	Request	As Needed	As Needed
Bioburden Assay	No growth	Agar plate for 48 hours	Request	Request	Standard
Mycoplasma	No Mycoplasma content	PCR	Request	Request	Request

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Production Modes

Manufacturing options for multiple production modes to meet your requirements.

We offer diverse production modes for plasmid manufacturing, catering to your specific needs. Our Research Mode is designed for rapid turnaround without compromising on quality. Pre-GMP serves as a cost-effective option for scaling up, while our GMP Production Mode guarantees the highest quality oversight and process controls.

PRODUCTION MODE COMPARISONS			
Service Mode	Research	Pre-GMP	GMP*
Cloning and Synthesis	X	X	X
Multiple production scales (shake flask through fermenters)	X	X	X
Proven manufacturing and purification processes for high yield and recovery	X	X	X
Standardized manufacturing platforms	X	X	X
Establishment and maintenance of working cell bank	X	X	X
Upstream process development (optimization of transformation and culture conditions, strain, etc.)	X	X	X
Downstream process development (optimization of purification and formulation conditions)	X	X	X
Product release tests	X	X	X
Production in segregated and dedicated space		X	X
Document support for IND filing		X	X
Master Batch Records		X	X
Manufacturing in cGMP suite with upgraded air handling			X
Complete QC monitoring throughout production process			X

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PlasmidPROS

PlasmidPros, high-quality, standardized and affordable plasmid services.

We offer a comprehensive research service for the production of your plasmid DNA, delivering Maxi, Mega, and Giga preps in as little as 72 hours.

The purified plasmid DNA is carefully resuspended in a buffer and promptly returned to your laboratory.

Key Advantages:

Cost-effective: Maxi, Mega, and Giga Plasmid Preps.

Antibiotic Selection: Carbenicillin or Kanamycin.

Resuspension Buffers: Water or 10mM Tris at pH 8.0.

Send us as little as a ~1 µg sample and we will manufacture your plasmid prep in 72 hours!

How It Works:

Step 1) Shipping - Send us your samples following the provided shipping instructions.

Step 2) Transformation - We transform your 1µg DNA sample into chemical component E.coli strain.

Step 3) Clone Selection - Transformed cells are plated on antibiotic-containing agar plates for plasmid resistance selection.

Step 4) Growth/Harvest - Cultivate overnight in a controlled shaker, then harvest via centrifugation.

Step 5) Lysis/Purification - Harvested cells undergo alkaline lysis and purification.

Step 6) UV Spectroscopy - Resuspend the purified plasmid DNA in water or 10 mM Tris at pH 8.0. The label on the final vial reports plasmid concentration and OD 260/280 ratio via UV spectroscopy.

Step 7) Receive Finished Samples - Receive your finished preps, ready for use.

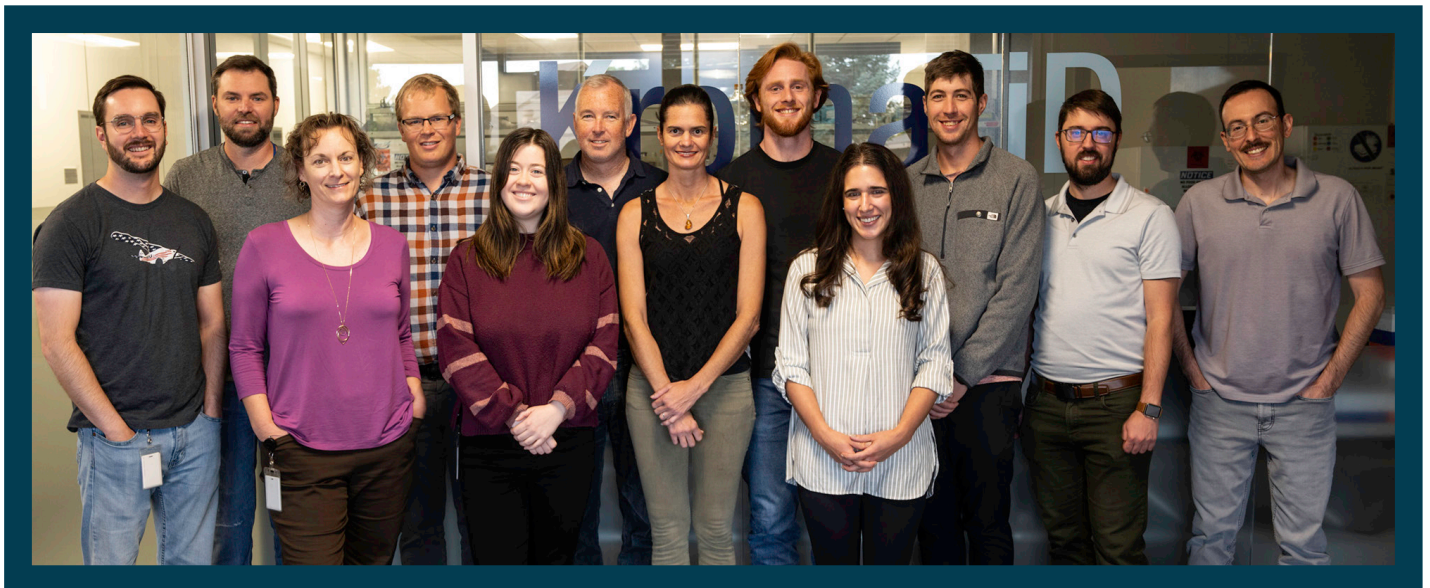
Visit PlasmidPros.com to order online with your credit card or upload your Purchase Order.

Thank you!

"It is a pleasure and honor to work with our researchers and life science companies to pursue the health and longevity of all humankind.

Thank you for allowing us to be your partner in your research endeavors and provide the support you need to further the advancement of genomic medicine."

*Sincerely,
The KromaTiD Team*



Ordering with Us is Easy!

To inquire about custom manufacturing requests, please feel free to contact us via our website or email us at sales@kromatid.com!

Placing orders for PlasmidPros plasmid preps is a breeze. You can do so directly on our website: <https://plasmidpros.com>.

Exciting news! We're now accepting credit card payments for your convenience.

Explore KromaTiD's Array of Services:

KromaTiD proudly offers a wide range of top-quality products and services, for research to cell and gene therapies. Visit our website to learn about our vast range of technologies and capabilities. With a global network of distributors, we've got you covered no matter where you are.

To find a distributor in your region, please visit our "Contact Us" page on our website. You can also connect with us through Scientist, Science Exchange, and BioCompare.

For technical support, KromaTiD provides assistance through our Live Chat feature on the website, via email, or over the phone.

Stay updated by visiting our website regularly to discover the latest additions to our catalog, and be sure to subscribe to our newsletter.

For more information, visit us at kromatid.com!



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