



Gene Universal Inc.  
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Gene Universal, located in Delaware USA, is a pioneer in the field of gene synthesis. As a leading company in genomics research and applied biological technology, Gene Universal has strong technical force. With unparalleled customized service and fast delivery time, we are aiming to provide more cost-effective service and product to accelerate the global research in drug discovery, biology optimization, food and agriculture and so on.

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## Oligo Synthesis

### Custom Oligo Synthesis

Gene Universal has the state-of-the-art high-throughput oligo synthesizers and offers a wide range of oligo synthesis services. Each oligo is meticulously monitored during synthesis and controlled according to our stringent quality standards. Our price is the most competitive in industry, and it is ready for shipping in 1-2 business days.

You can always find a better price from us without sacrificing quality and service

Product	Final Scale	Length (nt)	Unit Price
10 nmole DNA oligo	10 nmole	5-60 bases	--
25 nmole DNA oligo	25 nmole	5-60 bases	--
50 nmole DNA oligo	50 nmole	5-60 bases	--
100 nmole DNA oligo	100 nmole	5-60 bases	--
250 nmole DNA oligo	250 nmole	5-60 bases	--
1 umole DNA oligo	1 umole	5-60 bases	Inquiry

### Long Oligo Synthesis

Gene Universal provides 81 to 150 base long oligo synthesis service. Desalted synthesized long oligos are shipped as dry powder. Synthesis scales up to 1  $\mu$ mol are shipped in 3-4 business days.

Product	Final Scale	Length (nt)	Unit Price
25 nmole L-DNA oligo	25 nmole	61-150 bases	--
50 nmole L-DNA oligo	50 nmole	61-150 bases	--
250 nmole L-DNA oligo	250 nmole	61-150 bases	--
1 umole L-DNA oligo	1 umole	61-150 bases	Inquiry

#### Standard Deliverables:

- Dry powder or in solution at specified concentrations
- Certificate of Analysis (COA)



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## 96- & 384-Well Plate Synthesis

Gene Universal provides high-throughput oligo synthesis in 96- and 384-well plate formats. Combine oligos into plates and receive a lower price per base than oligos in individual tubes. Plate oligos are held to the same yield and quality standards as oligos in individual tubes. Oligos can be normalized to a specific yield and/or volume at no extra charge.

### Service Features

State-of-the art high-throughput DNA synthesizer.

Low error rate.

free concentration normalization.

Standard Oligo Plates (5–80 bases) :			
Product	Final Scale	Length (nt)	Unit Price
10 nmole plate	10 nmole	5-60 bases	--
20 nmole plate	20 nmole	5-80 bases	--
50 nmole plate	50 nmole	5-90 bases	--
100 nmole plate	100 nmole	5-90 bases	--
250 nmole plate	250 nmole	5-100 bases	--
1 umole plate	1 umole	5-100 bases	Inquiry

Long Oligo Plates (81–150 bases) :			
Product	Final Scale	Length (nt)	Unit Price
25 nmole L-Plate	25 nmole	81-150 bases	--
50 nmole L-Plate	50 nmole	91-150 bases	--
250 nmole L-Plate	250 nmole	101-150 bases	--
1 umole L-Plate	1 umole	101-150 bases	Inquiry

### Standard Deliverables:

- Dry powder or in solution at specified concentrations



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## Oligo Modifications(Probe)

A wide range of common and alternative modifications in different synthesis scales and purification options are available at Gene Universal. By utilising a fully automated synthesis facility and a highly developed and proprietary production system, Gene Universal can guarantee the high quality of our oligonucleotides.

### Product Specifications

Synthesis scales from 25nmole to 10  $\mu$ mol

Purification options: HPLC, PAGE

Sequence lengths: 5-80 bases

Turnaround times: 5-12 business days

Oligo synthesis report will be provided when the package is shipped.

[Please check the detailed information in the price list.](#)

## Competitive Advantages

### High Quality

In accordance with the high QC standards for oligos

### High Throughput

We specialize in high-throughput plate and pool synthesis

### Fast Delivery

Most oligos ready to ship within 24 hours



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## DNA Coding Compound Library Primer (Del Primer) Synthesis Service

In order to facilitate your research and application, we have developed a complete quality inspection system according to the process and principle of DEL database construction.

### Headpiece / AOP Headpieces / AOP Headpiece primer synthesis

Provides Headpiece, AOP Headpieces AOP Headpiece primer synthesis for DNA coding library (DEL) construction

### Service advantages

- Precise quantification
- High enzyme ligating efficiency
- Error rate close to zero:
- Professional project management team

### Standard delivery

Single tube or 96-well plate, dry powder or solution, COA file

## Gene Synthesis

With a professional gene synthesis service team and technical equipment, we can synthesize the cDNA optimized by our proprietary optimization software, artificially designed DNA sequences or any sequences you are interested in. Only DNA or amino acid sequence (specify the host) need to be provided, and we will deliver a plasmid containing your gene of interest and related quality assurance reports.

### Custom Gene Synthesis

#### Service advantages

- Fast delivery and Reliable: It takes only 2-3 weeks to synthesize genes with a length of less than 3kb (the time required for rapid gene synthesis service is shorter). The synthesized genes will be double verified by sequencing and restriction enzyme digestion.
- Seamless Cloning: Utilizing unique technology, genes can be inserted into any position of the vector of interest, so that your experimental design is no longer limited by restriction sites.
- Codon Optimization: Use proprietary genetic optimization software to analyze and optimize your sequence.
- Perfect Project Management: Every project is managed by one project manager with expertise, and project status will be updated once a week.

Sequence Length	Delivery Time	Price
<500bp	5~8 Business days	--/Gene
500bp~1500bp	8~10 Business days	--/bp
1501bp~3000bp	10~14 Business days	--/bp
3001bp~5000bp	16~24 Business days	--/bp
5000bp~8000bp	25~34 Business days	--/bp
8000~10000 bp	35~40 Business days	--/bp
10000~15000 bp	40~50 Business days	--/bp
>15000 bp	Inquiry	Inquiry

Our default vector is pUC57-Bsal-Free if the customer does not specify, and no subcloning fee will be charged.

## High-throughput Gene Synthesis

The rapid development of synthetic biology has brought increasingly urgent demands for gene synthesis capabilities. In recent years, microchip gene synthesis technology has made exciting new progress, and is developing in the direction of high throughput, high fidelity and automation. Gene Universal has state-of-the-art technology in synthetic biology and can provide customers with a fast and cost-effective high-throughput gene synthesis service, especially for the synthesis of large numbers of gene fragments and long genomic sequences, regardless of order size.

### Service advantages

- Experienced expert team
- Advanced high-throughput and high-fidelity gene synthesis technology
- Seamless cloning technology
- Professional project management

Gene Length	Order Size	Price
<500bp	< 50 kbp	--/bp
	50kbp – 100 kbp	--/bp
	> 100 kbp	--/bp
500bp-3 kb	< 50 kbp	--/bp
	50kbp – 100 kbp	--/bp
	100 – 300 kbp	--/bp
	> 300 kbp	--/bp
3 kb - 5 kb	< 50 kbp	--/bp
	50kbp – 100 kbp	--/bp
	100 – 300 kbp	--/bp
	> 300 kbp	--/bp
5 kb - 10 kb	< 50 kbp	--/bp
	50kbp – 100 kbp	--/bp
	100 – 300 kbp	--/bp
	> 300 kbp	--/bp

\*Order must consist of  $\geq 10$  genes

\*The price listed here only applies to non-complex sequences, we may charge an additional fee depending on the complexity of the submitted sequences.



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### Vector Information

-Our standard vector is PUC57\_Bsal\_Free/pBlueScript II SK(+). Without any particular specifications, synthetic genes will be cloned into our standard vector.

-NEW! Cloning into our in-stock vectors is also free. Please find a suitable vector [here](#).

-Any custom vectors must be provided (vector sequence and/or map is required). Now we offer free, secure storage of your custom plasmid vectors or commercial vectors service, and only charge \$29 for cloning into any archived vectors bundled with future gene synthesis orders.

### Standard Deliverables:

-2-5 µg purified, plasmid DNA with cloned insert, either in single tubes or a plate (large orders primarily).

-Plasmid map & Sequence chromatograms covering your gene (electronic).

-Quality Assurance Certificate.

### Special notice:

We promise not to release or use our customers' gene sequence or other related information in any form.





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## GeneFragments

GeneFragments are double-stranded, linear DNA fragments that can be quickly used for the cloning, construction, and transformation of simple genes.

### Service advantages

- 01 High Quality
- 02 Short Delivery Time
- 03 Cost-effective
- 04 High Fidelity

Length(Bp)	EDT	Price
150-500	2-4 Business Days	--
501-750		--
751-1000	3-5 Business Days	--
1001-1250	5-8 Business Days	--
1251-1500		--
1501-1750		--
1751-2000		--

\*Only sequences with overall GC content between 20% and 70% qualify for GeneFragments service. GC/AT rich or sequences with complex repeats do not qualify.

### Standard Deliverables:

- 500 ng of lyophilized double-stranded DNA
- Quality Assurance Certificate: Gel Analysis

## DNA Cloning(Subcloning & PCR Clone)

According to customer requirements, the target gene fragment is amplified or digested from the template, then cloned into the target vector and verified by Sanger sequencing. Subcloning is the re-cloning of the target DNA fragment that has been obtained, so that the target fragment can be further analyzed or recombined

Order Type	Fragment Length	Price	Turnaround Time
SubCloning (Bundled with GS)	<3000bp	--/construct	5-8 Business Days
	3000bp~5000bp	--/construct	7-10 Business Days
	5-8Kb	--/construct	10-12 Business Days
	>8Kb	Inquiry	Inquiry
PCR Cloning (Bundled with GS)	<1000bp	--/construct	6-10 Business Days
	1000bp~ 3000bp	--/construct	10-15 Business Days
	3-5 Kb	--/construct	10-15 Business Days
	>5Kb	Inquiry	Inquiry
SubCloning (Without GS)	<3000bp	--/construct	5-8 Business Days
	3000bp~5000bp	--/construct	7-10 Business Days
	5-8Kb	--/construct	10-12 Business Days
	>8Kb	Inquiry	Inquiry
PCR Cloning (Without GS )	<1000bp	--/construct	6-10 Business Days
	1000bp~ 3000bp	--/construct	10-15 Business Days
	3-5 Kb	--/construct	10-15 Business Days
	>5Kb	Inquiry	Inquiry

GS means Gene Synthesis Services; low-copy or special-resistant vectors need to be quoted separately.

### Standard Deliverables:

- 2-5 µg purified, plasmid DNA with cloned insert, either in single tubes or a plate (large orders primarily).
- Plasmid map & Sequence chromatograms covering your gene(electronic).
- Quality Assurance Certificate.

## Site-directed Mutagenesis

Site-directed mutagenesis technology can modify DNA fragments by PCR, including sequence deletion, insertion and point mutation, which enables studies of gene regulation, DNA-protein interactions and protein structure/function. We could perform site-directed mutagenesis according to customers' research purposes, and there is no need to worry about repeat sequences or high/low GC sequences.

Length	Mutated Site	EDT	Price
< 3000 bp	One	5-8 Business Days	--/mutation
	Two	10-14 Business Days	--/mutation
	Three	15-20 Business Days	--/mutation
3000 bp-8000 bp	One	5-8 Business Days	--/mutation
	Two	10-14 Business Days	--/mutation
	Three	15-20 Business Days	--/mutation
> 8000 bp	One	Inquiry	Inquire
	Two	Inquiry	Inquire
	Three	Inquiry	Inquire

### Standard Deliverables:

- One tube of 2-5µg of lyophilized plasmid containing target gene.
- Sequence chromatograms covering your gene (electronic).
- Construct map for the plasmid (electronic).
- Quality assurance certificate



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## Plasmid DNA Preparation

Gene Universal provides flexible plasmid prep packages, which could fit your research needs, including Research Grade, Transfection Grade and Preclinical Grade. Our high-quality plasmids will help you achieve efficient cell transfection, and help your DNA vaccine development, antibody production etc.

### Research Grade Plasmid Preparation Service

- 01 Remarkable supercoil structure
- 02 Flexible selection range, 10ug ~ 1g
- 03 Fast delivery time

Quantity(High Copies)	Turnaround	Price
100ug	2-3 Business Days	--
200ug	2-3 Business Days	--
500ug	2-3 Business Days	--
1mg	3-5 Business Days	--
2mg	3-5 Business Days	--
10mg(High-copy)	5-7 Business Days	--
10mg(Low-copy)	5-7 Business Days	--
>10mg	Inquiry	Inquire

### Transfection Grade Plasmid Preparation Service

- 01 Remarkable supercoil structure, endotoxin level <0.1EU/ug
- 02 Flexible selection range, 10ug ~ 1g
- 03 Fast delivery time

Quantity(High Copies)	Turnaround	Price
100ug	2-3 Business Days	--
200ug	2-3 Business Days	--
500ug	2-3 Business Days	--
1mg	3-5 Business Days	--
2mg	3-5 Business Days	--
10mg(High-copy)	5-7 Business Days	--
10mg(Low-copy)	5-7 Business Days	--
>10mg	Inquiry	Inquire

## Preclinical Grade Plasmid Preparation Service

01 Strictly adopting GLP standard operating procedures for production to ensure product quality

02 Supercoil >90%, endotoxin level <0.01EU/ug

03 Animal-free, enzyme-free, fully automated production process, all plasmid DNA products are sterilized through 0.22 filter membrane filtration

04 Flexible selection range, 10ug ~ 1g

Quantity(High Copies)	Turnaround	Price
100ug	2-3 Business Days	--
200ug	2-3 Business Days	--
500ug	2-3 Business Days	--
1mg	3-5 Business Days	--
2mg	3-5 Business Days	--
10mg(High-copy)	5-7 Business Days	--
10mg(Low-copy)	5-7 Business Days	--
>10mg	Inquiry	Inquire

## Preclinical grade plasmid testing standards

Items	Testing standard
Plasmid appearance	Clear and transparent without impurities
Plasmid concentration	1ug/uL
A260/A280	1.8~2.0
A260/A230	>2.0
Sequencing verification	Sanger sequencing
Digestion verification	Bands are correct in size and free
Supercoil content	>90%
Genomic test	Visual inspection without banding
RNA test	Visual inspection without banding
Endotoxin test	<0.01EU/ug

### Standard Deliverables:

- Prepared Plasmid DNA.
- Certificate of Analysis (COA).
- QC Report.