

## Price Reference

Between

**GENSCRIPT USA INC.**

And

**Pennsylvania state university**

***Confidential***

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GenScript is a leading research partner for fundamental life science research, translational biomedical research, and drug discovery and development. Specialized in providing customized solutions and pioneering products, GenScript has been consistently supporting clients with services of high quality and speed. GenScript's comprehensive service portfolio includes bio-reagent services, assay services and antibody drug discovery and development. Its renowned one-stop bio-reagent services encompass custom gene synthesis, molecular biology services, peptide synthesis, protein expression and purification, antibody development and production, as well as custom cell line development. At GenScript, we leverages the power of technology to accelerate life science research and drug discovery. We strive to make research easy and empower life science researchers worldwide to achieve more with less. With a global customer base, GenScript shares with you not only a goal-aligned business relationship but also a mission to further advance the frontier of biology for disease curing, energy saving and environment protection.

**I. SERVICE LIST**
**1. Gene Synthesis and Molecular Biology Services**

Service	List Price	Timeline (business days)	PSU Price	Note
<b>Standard Gene Synthesis (SC1010)</b>	Minimum charge (≤ 454bp): \$159/construct  ≤ 3kb, \$0.35/bp 3-5kb, \$0.40/bp 5-8kb, \$0.45/bp	≤ 1.5kb, 8-10 days 1.5-3kb, 10-12 days 3-5kb, 15-20 days 5-6kb, 20-25 days 6-8kb, 23-30 days	Minimum charge (≤ 454bp): \$159/construct ≤1kb, \$0.21/bp 1-2kb, \$0.31/bp 2-3kb, \$0.32/bp 3-5kb, \$0.38/bp 3-8kb, \$0.40/bp	No additional charge for difficult genes
<b>FAST Gene Synthesis (SC1619)</b>	≤ 454bp, \$159+\$0.30/bp  ≤ 3kb, \$0.65/bp 3-5kb, \$0.75/bp	≤1.2kb, 7 days 1.2-2kb, 9 days 2-3kb, 11 days 3-5kb, 15 days	≤ 454bp, \$159+\$0.28/bp ≤ 3kb, \$0.60/bp 3-5kb, \$0.70/bp	Not applicable for complex genes
<b>RUSH Gene Synthesis (SC1575)</b>	≤ 454bp, \$159+\$0.99/bp;  ≤ 4kb, \$1.34/bp	≤ 0.8 kb, 4 days 0.8-1.2kb, 5 days 1.2-2kb, 7 days 2-3kb, 8 days 3-4kb, 10 days	≤ 454bp, \$159+\$0.90/bp; ≤ 4kb, \$1.17/bp	Not applicable to complex genes; timeline for genes under 2kb is <u>guaranteed</u> .
<b>Economy Gene Synthesis (SC1645)</b>	Minimum charge (≤ 454bp): \$89/construct  Easy gene: ≤ 3kb, \$0.19/bp 3-5kb, \$0.23/bp 5-8kb, \$0.29/bp  Difficult gene: ≤ 3kb, \$0.23/bp 3-5kb, \$0.29/bp 5-8kb, \$0.35/bp	≤ 1.5kb, 10-15 days 1.5-3kb, 15-20 days 3-6kb, 20-29 days 6-8kb, 35-44 days	same as list price	See Note 7 for details on difficulty

<b>GenBrick™</b> <b>Gene Synthesis</b> <b>(SC1584)</b>	8-15kb, \$0.45/bp >15kb, quote	Starts from 23 days	8-15kb, \$0.40/bp >15kb, quote	Applicable for genes over 8kb, sequence subject to evaluation
<b>Subcloning Bundle</b> <b>(SC1017)</b>	Insert length ≤ 10kb, \$49 if vector is achieved or to-be archived ≤ 10kb, \$149 if vector is not archived and no to-be archived Cost for CloneEZ varies	2-5 days	same as list price	Must be bundled with gene synthesis (SC1010, SC1645, etc.). The vector for cloning can be plasmid previously synthesized by GenScript Non-standard non-restriction cloning results in CloneEZ variable pricing.
<b>Subcloning (SC1625)</b>	Insert length ≤ 3kb, \$149 3-6kb, \$199, 6-10kb, \$249 Cost for CloneEZ varies	≤ 3kb, 10-14 days 3-6kb, 14 + 3 per kb days 6-10kb, 14 + 3 per kb days	same as list price	<b>Not required to be bundled</b> with gene synthesis (SC1010, SC1645, etc.) Non-standard non-restriction cloning results in CloneEZ variable pricing.
<b>Express Cloning</b> <b>(SC1691)</b>	Insert length ≤ 8kb, \$49 Cost for CloneEZ varies	2 days	same as list price	Must be bundled with gene synthesis (SC1010, SC1645, etc.). Uses IP-free or default vectors only. Non-standard non-restriction cloning results in CloneEZ variable pricing.

<b>VectorArk Cloning (SC1692)</b>	Insert length $\leq$ 8kb, \$49  Cost for CloneEZ varies	5 days	same as list price	Must be bundled with gene synthesis (SC1010, SC1645, etc.). Use Customer provided vectors archived with or to be archived with GenScript.  Non-standard non-restriction cloning results in CloneEZ variable pricing
<b>Customized Cloning (SC1622)</b>	Starts from \$295  Cost for CloneEZ varies	~14 days	same as list price	For template from client, additional \$100 per kb for genes longer than 1 kb  Non-standard non-restriction cloning results in CloneEZ variable pricing.

## GenTitan gene fragments

Service	List Price	Timeline (business days)	Price	Note
	\$0.07 with Adapter (minimum charge \$35 for <500 bp)	5-7 BD	20% off	
<b>GenTitan Gene fragments</b>				

\$0.08 without Adapter (minimum charge \$40 for <500 bp)	6-8 BD	20% off	
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## Mutagenesis, ORF Clones, and Precision Mutant Libraries

<b>Express Mutagenesis bundled with gene synthesis (SC1441)</b>	≤ 3kb, \$99/mutation; 3-8kb, \$99/mutation +\$100; >8kb, quote	≤8kb, 5 days >8kb, quote	7.5% off	One mutation is defined as any combination of base changes within a 30-base frame.
<b>Mutagenesis from a template previously synthesized by GenScript (SC1626)</b>	≤ 3kb, \$99/mutation; 3-8kb, \$99/mutation +\$100; >8kb, quote	Starts from 8 days	7.5% off	One mutation is defined as any combination of base changes within a 30-base frame.
<b>Mutagenesis from customer-provided templates (SC1023)</b>	≤ 1kb, \$169/mutation >1kb, Additional \$100 per extra kb	~ 10 days	7.5% off	One mutation is defined as any combination of base changes within a 30-base frame.
<b>High Throughput Mutagenesis (SC1154)</b>	\$50/mutation Template <10Kb Min order of 100 mutations	~3 weeks	same as list price	One mutation is defined as any combination of base changes within a 30-base frame.
<b>GenEZ™ ORF Clones (SC1200)</b>	Starts from \$99 (in stock) or \$159 (on-demand)	Starts from 5 days (in stock) or 7 days (on-demand)	same as list price	See website for details
<b>Mutation Library &amp; HTP DNA Assembly Library Construction</b>	Quote	Quote	Quote	See website for details

## Plasmid Prep

		Research Grade	Industrial Grade	US Rush Grade
	Features	Predominantly supercoiled, Optional animal-free	90% Supercoil, ≤ 0.01 EU/µg Endotoxin, Optional animal-free	< 0.1 EU/µg Endotoxin
	Turnaround Time	Starting from 2 days	Starting from 2 days	1-3 days

Plasmid Preparation	HT (10 µg)		\$29	
	HT (30 µg)		\$49	
	Midi (100 µg)	\$39	\$99	\$89
	Maxi (200 µg)	\$69	\$139	\$89
	Maxi (500 µg)	\$99	\$199	\$139
	Mega (1 mg)	\$119	\$239	\$159
	Mega (2 mg)	\$149	\$279	\$199
	Mega (5 mg)	\$279	\$419	Quote
	Giga (10 mg) (high copy)	\$419 (\$519 for template from customer)	\$679 (\$849 for template from customer)	Quote
	Giga (10 mg) (low copy)	\$649	\$1,099	Quote
	20 mg (high copy)	\$599 (\$749 for template from customer)	\$1,099 (\$1,299 for template from customer)	Quote
	20 mg (low copy)	\$1,099	\$1,799	Quote
Note: Timeline shows additional days when bundled with gene synthesis and cloning. For plasmid prep only, additional shipping time will apply. Larger quantities to gram scale available, quote for price and turnaround time				
<b>PSU Discount:10% off</b>				

## ITR guarantee service (SC2330)

Service	List Price	Timeline (CD)	Price	Note
ITR guarantee service	\$200	7	10% off	

## PolyA guarantee service (SC2332)

Quantity	research/industrial listing price (High copy)	preclinical listing price (High copy)	research/industrial listing price (Low copy)	preclinical listing price (Low copy)	Add TAT (CD)
4ug(or cloning)	\$79	-	\$79	-	5
30ug	\$129	-	\$219	-	6

100ug	\$129	-	\$219	-	6
200ug	\$129	-	\$219	-	6
500ug	\$129	-	\$219	-	6
1mg	\$159	-	\$309	-	5
2mg	\$159	-	\$309	-	5
5mg	\$199	-	\$479	-	4
10mg	\$299	\$599	\$599	\$1199	4
20mg	\$399	\$659	\$799	\$1599	4
50mg	\$539	\$819	\$1080	\$1899	3
100mg	\$699	\$999	\$1400	\$2199	3
200mg	\$899	\$1299	\$1801	\$2699	3
500mg	\$2099	\$2399	\$4205	\$5399	3
1000mg	\$3999	\$4219	\$8011	\$10099	3
2000mg	\$7599	\$7999	\$15223	\$19899	3

**Notes and Specifications:**

- 1)GenScript default cloning vector is pUC57, without vector specification by the client, GenScript will clone synthesized genes into pUC57 at no charge.
- 2)Minimum charge may applied for gene synthesis service as indicated.
- 3)GenScript provides complimentary codon optimization using proprietary GenSmart Codon Optimization™ tool upon client's request.
- 4)GenScript guarantees 100% sequencing accuracy for all gene synthesis products. Standard QC documentation includes sequencing data, alignment files, and certificate of analysis (COA). Vector NTI files available upon request. Additional QC services will result in additional QC documentation provided.
- 5)Express cloning vector list is available at: <http://www.genscript.com/express-cloning-vector-list.html>
- 6)Plasmid preparation service delivers plasmids with equal or more quantities than specified.
- 7)Gene synthesis difficulty will be evaluated on a gene by gene basis via GenScript proprietary algorithms. Extreme high and low GC, repetitive regions, inverted repeats, etc. require higher levels of customization in production process.

## 2. Oligo and Oligo Pools

### 1) Oligo Synthesis and Purification

Chemically synthesized DNA and RNA oligo pricing is calculated based on a matrix of attributes including (but not limited to): Amount, Length, Purification Method, Modifications, etc.

For short, simple, and small scale (<= 1umol) DNA or RNA oligo pricing please visit [Custom DNA Oligo Synthesis Services \(genscript.com\)](#) or [Custom RNA Oligos, Antisense Oligonucleotides-GenScript](#).

For more complex and larger scale DNA or RNA oligo pricing please reach out to your sales representative.

### 2) Precise Synthetic Oligo Pools

Turnaround time is typically 1-2 weeks.

Legacy pools

Legacy pools	10-79 nt	80-109 nt	110-130 nt	131-150 nt	151-170 nt
Up to 12,472 oligos (SC1966-12)	\$1,600	\$1,800	\$2,000	\$2,200	\$2,400
Up to 92,918 oligos (SC1966-92)	\$4,000	\$4,500	\$5,000	\$5,500	\$6,000
<b>Discount: 10% off</b>					

GenTitan High-Fidelity 92k (HiFi 92k) pool

HiFi 92k SC1966-HF92	10-79 nt	80-109 nt	110-130 nt	131-150 nt	151-170 nt
6k	\$1,540	\$1,760	\$1,980	\$2,180	\$2,400
12k	\$1,600	\$1,800	\$2,000	\$2,200	\$2,420
24k	\$2,200	\$2,420	\$2,640	\$2,970	\$3,300
36k	\$2,640	\$2,970	\$3,300	\$3,630	\$3,960

48k	\$3,080	\$3,410	\$3,740	\$4,180	\$4,620
60k	\$3,520	\$3,960	\$4,400	\$4,840	\$5,280
72k	\$3,960	\$4,400	\$4,840	\$5,390	\$5,940
92k	\$4,000	\$4,500	\$5,000	\$5,500	\$6,000
<b>Discount:10% off</b>					

GenTitan High-Density 8M (HD8M) pool

HD8M 1966- HD8M	20-120nt	121-150nt	151-170nt
180k	\$7,200	\$8,200	\$9,000
360k	\$9,800	\$11,000	\$12,000
540k	\$11,500	\$13,500	\$15,000
720k	\$14,500	\$16,000	\$17,500
1M	\$17,000	\$18,500	\$20,000
2M	\$22,000	\$23,500	\$25,000
3M	\$27,000	\$28,500	\$30,000
4M	\$31,600	\$33,300	\$35,000
5M	\$36,600	\$38,300	\$40,000
6M	\$41,600	\$43,300	\$45,000
7M	\$46,600	\$48,300	\$50,000
8M	\$51,600	\$53,300	\$55,000
<b>Discount:10% off</b>			

#### Notes and Specifications:

- 1)Oligo pool synthesis is based on proprietary semiconductor-based electrochemical oligo synthesis platform developed by CustomArray, Inc.
- 2)Two different chip capacities are offered: 12K chip-holds a maximum of 12472 unique oligos; 90K chip-holds a maximum of 92,918 unique oligos.
- 3)Inquire for oligos of 171-200 bases in length.

### 3. Peptide Synthesis

GenScript offers a range of peptide synthesis options from short to long (-200 AA) from small amount (mg) to large amount (Kg), and crude to high purity (>98%).

Peptides are priced based on length, amount, and purity and the price will vary between sequences. We offer a wide range of modifications including special amino acids, disulfide bridges, cyclization, etc.

Peptide pricing is also impacted by the request speed (aka prioritization) of your order and by the requirement to pool or not pool peptides.

Peptides can be quoted or ordered through your local Sales Representative or Technical Account Manager. Additionally simple peptides can be quoted or ordered directly from the following online resource.

[https://www.genscript.com/quick\\_order/custom\\_peptide](https://www.genscript.com/quick_order/custom_peptide)

Service/Part Number	Description	List Price	TAT (BD)	PSU Price
<b>Custom Peptide Synthesis (SC1208)</b>	4-50 AA lengths optimal, up to 200 AA possible.  1-1000 mg optimal, up to Kg amounts possible.	Price is determined on a per sequence basis.  Price = No. of AA * price/AA (varies depending on purity) + modification costs	10 BD	15% off
<b>Fast Peptide Synthesis (SC1848)</b>	Purified peptides w/ prioritized (faster) delivery.	Additional 25% price compared to SC1208.	6 BD	15% off
<b>Rush Peptide Synthesis (SC1845)</b>	Crude peptides w/ prioritized (faster) delivery.	SC1208.	5 BD	15% off
<b>Crude Peptide Library (SC1177)</b>	5-25 AA per peptide lengths  1-20 mg per peptide amounts  Purity is crude.  >=24 peptides required per library	Price is determined per sequence and based on total number of peptides.	9-17 BD (5-15AA)  15-20 BD (16-25AA)	10% off

<b>Purified Peptide Library (SC1487)</b>	5-25 AA per peptide lengths 1-4 mg per peptide amounts  Purity varies from 70-98%  >=24 peptides required per library	Price is determined per sequence and based on total number of peptides.  Increasing purity requirements increase price (70-98% purity options)	15-20 BD	10% off
<b>Crude Micro-scale Peptide Library (SC1695)</b>	5-20 AA per peptide lengths 0.2-0.5 mg per peptide amounts  Purity is crude.  >=24 peptides required per library	Price is determined per sequence and based on total number of peptides.	15-20 BD	10% off
<b>Purified Micro-scale Peptide Library (SC1696)</b>	5-20 AA per peptide lengths 0.2-0.5 mg per peptide amounts  Purity is >=70%.  >=24 peptides required per library	Price is determined per sequence and based on total number of peptides.	15-20 BD	10% off
<b>GMP peptide (SC1289)</b>	neoantigen peptide, up to 35 AA, crude to >=98%, up to 150mg, over 30 modifications  API peptide, up to 80 AA, >=95%, mg to kg, over 30 modifications	Price is determined per sequence and based on peptide amounts.	neoantigen peptide <30BD API peptide (consult PM)	10% off

**Notes:**

1. As an example, if you want 14 mg, Crude, 15AA peptide, your price will be approximately \$66.5 for Custom Peptide Synthesis (SC1208), \$83 for Rush Peptide Synthesis (SC1845).
2. Standard peptide deliverables include the following: lyophilized peptides aliquoted into individual vials, COA, MS spectra, HPLC chromatographs.
3. To see all the possible modifications (Azide, 5-FAM, etc.) please go here: [https://www.genscript.com/peptide\\_modification.html](https://www.genscript.com/peptide_modification.html)
4. Additional options and add-ons (solubility testing, TFA removal, etc.) are also available for an additional cost. Please see here for a list of some of these options: [https://www.genscript.com/accupep\\_quality.html](https://www.genscript.com/accupep_quality.html)
5. Other more specialized peptide services can be found here: <https://www.genscript.com/peptide-services.html>

#### 4. Protein Expression

Service	Description	Price and Timeline	Price
		(business days)	
Bacterial Expression	Bacpower™ customized service (SC1318) offers comprehensive options for target protein production in <i>E. coli</i> expression system at desired yield, purity, endotoxin level and tagging/tag-free stragy. Our protein refolding technology is developed for recovering biologically functional proteins from inclusion bodies.	Quote for different packages, starts from 4 weeks	10% off
Insect Expression	BacuVance™ baculovirus service (SC1810) enables virus production and expression of recombinant proteins from baculovirus-infected insect cells. This eukaryotic expression system is able to express protein with proper post-translational modifications and support the production of difficult-to-express proteins, such as kinases, viral targets, cell surface receptors, and so on.	Quote for different packages, 7-8 weeks	10% off
Mammalian Transient Expression	Proprietary transient mammalian expression technology empowers TurboCHO™ Platform to support small-scale HT (High-throughput gene-to-antibody) production, Guaranteed Recombinant Ab production, and large-scale Express/HP/Stable packages for both recombinant Ab and other proteins.	Quote for different packages, from 5 business days to 12 weeks	10% off

**Notes and Specifications:**

- 1) Protein sequences are subject to evaluation for quote.
- 2) Guaranteed packages are not applicable to membrane proteins, toxic proteins and target proteins greater than 100kDa or requested protein amount greater than package offering.
- 3) Codon optimization using GenScript proprietary GenSmart™ tool will be performed for gene synthesis in protein expression packages.
- 4) Insoluble proteins may be subject to FoldArt™ technology, GenScript's proprietary protein refolding platform.
- 5) All timelines are estimates and will depend on the complexity of the project. Optional steps may extend the overall timeline.
- 6) The table below illustrates our common service offerings in custom packages.

Gene Synthesis	Subcloning	Expression Optimization	Pilot scale protein & expression and purification	Protein Refolding	Tag Removal
SDS-PAGE &Western Blot	HPLC	MALDI-TOF	Affinity Chromatography	Size-Exclusion Chromatography	Ion Exchange Chromatography
N-terminal sequencing	Endotoxin Removal	Isotope-Labeling	Large-Scale Protein Production	Protocol Transfer	Protein Activity Assay

**TurboCHO HT™ (High Throughput) volume based Service (Gene to Antibody Service) - Made in China**

Volume	Sample Size	Price (USD)	Production Time
1ml - Plate	≥ 96	\$200	1-2 weeks
10ml	N/A	\$399	Starting from 5 Business Days
30ml	N/A	\$599	Starting from 5 Business Days

**TurboCHO™ guaranteed yield-based Service (Gene to Antibody Service) - Made in Singapore**

Service Platform	Scale (mg)	Sample Size	Price (USD)	Production Time	Terms
HT (High Throughput)	0.1	N/A	\$499	2 weeks	1. If ≥85% (antibody #) are expressed and delivered, the whole project will be charged in full; 2. If <85% (antibody #) are expressed and delivered, we will charge full price for the qualified antibodies, and charge 40% on the unqualified antibodies.
	1	N/A	\$699		
	5	N/A	\$1,299		
Express	10	N/A	\$1,400	2-3 weeks	1. If the requested amount is delivered, the full price will be charged. 2. If the requested amount is not reached, we only charge the price for the qualified amount of antibodies. E.g. The final
	20	N/A	\$1,800		
	50	N/A	\$3,600		
	100	N/A	\$5,400		
	200	N/A	\$7,200		
	500	N/A	\$12,000		

	1000	N/A	\$15,000	3 weeks	delivered amount is 8mg out of 10mg, we will charge \$1120.
HP (High Performance)	500	N/A	\$10,000	6-8 weeks	1. If the requested amount is delivered, the full price will be charged.
	1000	N/A	\$14,000		2. If the requested amount is not reached, we only charge the price for the qualified amount of antibodies. E.g. The final delivered amount is 400 mg out of 500 mg, we will charge \$8,000.
	2000	N/A	\$18,500		
	3000	N/A	\$20,000		
	4000	N/A	\$21,500		
	5000	N/A	\$23,000		

**Notes :**

1. Pricing is applicable to hIgG1, hIgG4, mouse IgG2a, rabbit IgG backbone (No chimeric) and VHH-Fc.
2. If the 1st round cannot meet the requirements, we will perform 2nd around as default free of charge. The timeline will be extended as suggested.

## 5. Antibody Services

Service	Description	Price and Timeline	Price
<b>Polyclonal Antibody Services (Mouse, Rat, Rabbit, Goat and Guinea Pig)</b>	<b>PolyExpress™ packages</b> delivers high quality pAbs in just 45 days (from order to delivery), 2 months faster than traditional immunization protocols.	Quote	10% off
	<b>Custom polyclonal antibodies can also be generated from a variety of other host species using traditional immunization protocols (including mouse, rat, rabbit, guinea pig and goat).</b>	Quote	10% off
	<b>Modification-specific pAb packages</b> available upon evaluation.	Quote	10% off
<b>Monoclonal Antibody Services (Mouse &amp; Rat)</b>	<b>MonoBoost™ packages</b> generate specific hybridoma supernatants within 45 days after antigen preparation, allowing you to evaluate the supernatant or use it right away. These packages deliver custom monoclonal antibodies quickly and with a range of costs and guarantees to meet a variety of application needs.	Quote	10% off
	<b>Standard and Customized mAb packages</b> provide compressive project design from immunization strategy, immunogen production, to fusion and screening methods, etc., while the latter offering client ultimate control at every phase of the project. Proven success in consistent <b>Anti-idiotype (Anti-ID) mAb</b> generation for anti-drug antibody ( <b>ADA</b> ) studies.	Quote	10% off
	<b>Antibody Drug Discovery platform</b> offer a complete suite of services supporting therapeutic antibody drug development from lead generation through lead optimization, characterization and antibody production. Also see <b>Biologics Services</b> below.	Quote	10% off
<b>Monoclonal Antibody Services (Rabbit)</b>	<b>MonoRab™ Rabbit mAb Generation Service</b> is a full scale service including antigen preparation, rabbit immunization, recombinant antibody production, and antibody sequencing; ensuring ultimate levels of reproducibility and mAb purification. Specifically tailored for <b>IVD, IHC</b> and <b>Anti-ID mAb</b> purpose.	Quote	10% off

<b>Antibody Modification &amp; Paring Services</b>	<b>Antibody Modification</b> and other <b>Specialized Services</b> including HRP-conjugation, Fluor-labeling, customizable purification and modification, ELISA Ab pairing, immunoassay development, etc.	Quote	10% off
<b>Antibody Scale-Up Production</b>	<i>In vivo</i> (ascites) and <i>in vitro</i> (hybridoma culture) manufacturing of antibodies at large quantities. Guaranteed yield if hybridoma generated by GenScript.	Quote	10% off

#### Notes and Specifications:

- 1) GenScript proprietary OptimumAntigen™ design tool and ImmunoPlus™ antigen strategy help design the best immunogens and increase the specificity and affinity of antibodies.
- 2) GenScript antibody facility is AAALAC International accredited and OLAW certified.
- 3) GenScript offers ELISA titer guarantees and conditional application guarantees. Guarantee varies in packages and restrictions may apply.

#### **PolyExpress™ packages**

deliver high-quality pAbs in just 45 days (from order to delivery), 2 months faster than traditional immunization protocols.

Service Type	Cat No.	Description	Unit Price (OLAW/AAALAC certification)	Turnaround Time	Deliverables
Rabbit pAb-Polyexpress-peptide antigen	SC1180	Express Affinity-Purified Peptide Supplied Polyclonal Antibody (Rabbit)	\$1,349.00 (OLAW/AAALAC certification)	45 days	a. 0.1mg total rabbit IgG b. 2-6mg antigen affinity purified antibody c. 2mg unconjugated peptide
Rabbit Pab-Polyexpress protein antigen	SC1676	PolyExpressTM Premium antigen-specific affinity purified pAb	\$3,099.00 (OLAW/AAALAC certification)	10-11 weeks	a. 2 pAbs. 1.5-6mg antigen affinity purified Ab/rabbit. Total 3 mg antibody b. 200µg protein (His tag) (85% purity) c. 0.1mg total rabbit IgG d. Quality Control Report

#### **MonoBoost™ packages**

Generate specific hybridoma supernatants within 45 days after antigen preparation, allowing you to evaluate the supernatant or use it right away.

These packages deliver custom monoclonal antibodies quickly and with a range of costs and guarantees to meet a variety of application needs.

Service Type	Cat No.	Description	Unit Price	Turnaround Time	Deliverables
	SC2129	<b>Accelerated By MonoBoost™ (3 mice)</b>	\$9,898 (Protein antigen expressed by GenScript) \$7,499 (Protein antigen provided by customer)	13 weeks	<p>First Delivery:</p> <ul style="list-style-type: none"> <li>-Supernatants from up to 30 parental clones (2 ml/clone) and negative control supernatants</li> <li>-If the supers in the first delivery don't fit the needs on customer's end and customer asks for a 2nd round of cell fusion, we perform a 2nd fusion and deliver 10 ELISA positive supernatants with additional charge of price \$999.</li> </ul> <p>Final Delivery:</p> <ol style="list-style-type: none"> <li>a. 1 WB positive clone for immunogen</li> <li>b. Up to 5 hybridoma cell lines (2 vials/clone)</li> <li>c. 5 ml supernatant of each hybridoma cell line</li> <li>d. 2 mg purified mAb from 1 clone</li> <li>e. 0.2 mg purified antigen (if GenScript provides)</li> </ol>
<b>MonoBoost™ Custom Monoclonal Antibody Service Packages</b>					

SC2128	<b>Classic By MonoTraditinal (5 mice)</b>	\$7,898 (Protein antigen expressed by GenScript) \$5,499 (Protein antigen provided by customer)	23-30 weeks	First Delivery:  -Supernatants from up to 20 parental clones (2 ml/clone) and negative control supernatants  -If the supers in the first delivery don't fit the needs on customer's end and customer asks for a 2nd round of cell fusion, we perform a 2nd fusion and deliver 10 ELISA positive supernatants with additional charge of price \$999.  Final Delivery:  a. 1 WB positive clone for immunogen b. Up to 5 hybridoma cell lines (2 vials/clone) c. 5 ml supernatant of each hybridoma cell line d. 2 mg purified mAb from 1 clone e. 0.2 mg purified antigen (if GenScript provides)	

Service Type	Cat No.	Description	Unit Price	Turnaround Time	Deliverables
					First Delivery:  -Supernatants from up to 30 parental clones (2 ml/clone) and negative control supernatants  -If the supers in the first delivery don't fit the needs on customer's end and customer asks for a 2nd round of cell fusion, we perform a 2nd fusion and deliver 10 ELISA positive supernatants with additional charge of price \$999.  Final Delivery:  a. 1 WB positive clone for immunogen b. Up to 5 hybridoma cell lines (2 vials/clone) c. 5 ml supernatant of each hybridoma cell line

MonoBoost™ Custom Monoclonal Antibody Service Packages		customer)	d. 2 mg purified mAb from 1 clone
			e. 0.2 mg purified antigen (if GenScript provides)
SC2128	Classic By MonoTraditinal (5 mice)	\$7,898 (Protein antigen expressed by GenScript)	First Delivery:  -Supernatants from up to 20 parental clones (2 ml/clone) and negative control supernatants  -If the supers in the first delivery don't fit the needs on customer's end and customer asks for a 2nd round of cell fusion, we perform a 2nd fusion and deliver 10 ELISA positive supernatants with additional charge of price \$999.
			Final Delivery:  a. 1 WB positive clone for immunogen b. Up to 5 hybridoma cell lines (2 vials/clone) c. 5 ml supernatant of each hybridoma cell line d. 2 mg purified mAb from 1 clone
			e. 0.2 mg purified antigen (if GenScript provides)
		\$5,499 (Protein antigen provided by customer)	

Service	Description	List Price
Antibody Sequencing (Hybridoma to sequence)	SC2190: High throughput Antibody Sequencing	1-20 clones: \$620/clone
		21-50 clones: \$13,000
		51-100: \$15,500
		101-200: \$19,600
		201-300: \$22,500
		21-50 clones: \$11,200*
		51-100: \$12,800*
		101-200: \$14,400*
		201-300: \$16,000*
	SC2188-US: Standard variable domain and leader sequence sequencing	\$840/clone ( $\geq$ 5 clones)
	SC2188: Standard variable domain and leader sequence sequencing	\$960/clone(<5clones)
	SC2189-US: Standard full length antibody sequencing	\$1,400/clone ( $\geq$ 5 clones)
	SC2189: Standard full length antibody sequencing	\$1,600/clone (<5clones)

**Notes and Specifications:**

1) Sequencing plasmid containing antibody coding sequence and/or expression construct containing antibody coding sequence of light/heavy chain

available upon request with additional fees. Expression constructs can be bundled at the price of \$350 (both HC and LC)

2) Guarantee 100% accuracy of VH/VL sequences. No sequences no fees (only applicable for hybridoma cells).

3)\*This price is for sequencing service packaged with our Mouse/Rabbit mAb and single B cell antibody discovery projects only.

Draft

## 6. CRISPR Services

GenScript offers a range of customized CRISPR nucleic acid reagents, viral-based screening libraries, and off-the-shelf nucleases. These customized reagents include guides, guide-expressing plasmids, HDR templates (aka “payloads”), etc.

The services will support applications including GOI screening, *in vitro* functional assays, *in vivo* validation, and cGMP grades services needs in clinical research and commercialization

Service	List Price and TAT						PSU price		
GenCRISPR sgRNA	Length (nt)	Quantity	EasyEdit (RUO)		SafeEdit (RUO)		cGMP Quote Required		
			Price	Production Time	Price	Production Time			
	97-103	2 nmol	US\$79	4-5 CD/ 3-4 BD	US\$199	7 CD/ 5 BD	5% off		
		4 nmol	US\$149		US\$319				
		10 nmol	US\$329		US\$579				
		50 nmol	US\$999	5-7 CD/ 4-5 BD	US\$1,699	9 CD/ 7 BD	5% off		
		100 nmol	US\$1,299		US\$2,499	14 CD/ 10 BD	5% off		
GenExact ssDNA	151-500	Length (nt)	Quantity	RUO Price		RUO TAT	cGMP		
		3 µg	3 µg	\$400			10% off		
		5 µg	5 µg	\$550					
		10 µg	10 µg	\$800					
		20 µg	20 µg	\$1,300					
		>20 µg		Quote Required			10% off		
		3 µg		\$0.8/nt					
		5 µg		\$1/nt					

501-2999	10 µg	\$1.3/nt	18-23 BD	10% off	
	20 µg	\$1.9/nt			
	>20 µg	Quote Required			
	3000-5000	Quote Required	Quote Required		
GenWand dsDNA	Length (bp)	Quantity	RUO Price	RUO TAT	cGMP
	2000-5000	100 µg	\$1,800	20-55* BD	10% off
		500 µg	\$5,000		10% off
		1mg	\$8,000		10% off
		10mg	\$46,000		10% off
		>10 mg	Quote		10% off
	5001-10000	100 µg	\$2,000		10% off
		500 µg	\$6,000		10% off
		1mg	\$10,000		10% off
		10mg	\$55,000		10% off
		>10 mg	Quote Required		10% off
*Please note that additional time and cost is required to synthesize the starting gene synthesis template for GenWand dsDNA					
	Length (bp)	Quantity	Industrial Grade (RUO)	Preclinical Grade (RUO)	10% off
	Price		TAT	Price	
	100 µg	\$500		/	

<b>GenCircle Plasmid</b>	1000- 8000	11-33* BD	200 µg	\$600	/	19-35 * BD	10% off	
			500 µg	\$700	/		10% off	
			1mg	\$880	\$1,056		10% off	
			10 mg	\$1,620	\$1,944		10% off	
			100 mg	\$7,200	\$8,640		10% off	
			500 mg	\$31,320	\$37,584		10% off	
			>500 mg	Quote Required	Quote Required		10% off	
			*Please note that additional time and cost is required to synthesize the starting gene synthesis template for GenCircle.					
<b>CRISPR Plasmids</b>	\$99 or \$199, Immediate shipping for in-stock plasmids				<b>TAT</b>			
<b>CRISPR Libraries</b>	Pricing is dependent on library size				Quote Required	5% off		
<b>Microbial Genome Editing</b>	Starts from \$4,000, Starts from 4 weeks				Quote Required	10% off		
					Quote Required	10% off		

## 7. Biologics Discovery and Development

GenScript offers a comprehensive portfolio of Biologics Services covering custom antibody drug discovery and development services with stringent IP protection.

The services include **Target Discovery, Ab Lead Generation and Optimization, Ab Production and Ab Testing**. With a proven record of success,

we provide high quality services along with the convenience of one-stop solution.

Service	Description	Price and Time line
<b>CellPower™ For Assay Cell Line Development</b>	Recombinant stable pool or single cell-derived clones generated from lentiviral transduction. Suitable for <b>assay studies</b> and <b>antigen usage</b> . Viral (lentivirus or retrovirus) or non-viral (plasmid, chemical or physical) based transduction options available. Experienced in stable expression of membrane proteins. Guaranteed mRNA expression and mycoplasma-free control.	Quote for price, starts from 7 weeks for stable pool, starts from 12-16 weeks for single clone
<b>Hybridoma Generation for Therapeutic Antibody Discovery</b>	Hybridoma generation by selecting from a full spectrum of immunization approaches to insure robust and appropriate immune responses. HTP screening and comprehensive functional assay. Yields up to 100 high quality clonal hybridomas, with readily integrated downstream services (sequencing, humanization, rAb production, anti-ID for PK/PD studies)	Quote
<b>SMAB Bispecific Antibody</b>	GenScript's <b>SMAB</b> (Single-domain antibody fused to <b>monoclonal Ab</b> ) platform naturally combine the single domain Ab and the monoclonal Ab to make a bispecific antibody in symmetric format with good biological efficacy and good developability. Available for R&D service and co-development model.	Quote
<b>Antibody Humanization</b>	Combining <i>in silico</i> CDR-grafting, structure-based back mutation, and supported by our patented FASEBA (Fast Screening for Expression, Biophysical-properties and Affinity) screening, Biacore SPR platform and functional assay platform, we guarantee the humanized Abs have comparable affinity with parental antibody. <b>Express package</b> and <b>Deluxe package</b> available to suit different needs.	Quote for price, 12-13 weeks for Express package, 14-15 weeks for Deluxe package
<b>Antibody Affinity Maturation</b>	Supported by phage display and FASEBA screening, antibody affinity increases for at least 5 fold and up to 100 fold.	Quote for price, 4-5 months
<b>Production Stable Cell Line &amp; Process Development</b>	Please see "mammalian stable expression" in protein services for stable cell line development. Process development includes <b>Upstream</b> (culture condition, feeding strategy, scale-up to bioreactor, QC and optimization) and <b>Downstream</b> (purification, modification, and analytical assay) development.	Quote
<b>Affinity Ranking &amp; Measurement</b>	Biacore SPR supported affinity ranking, affinity measurement and kinetics measurement, delivers analytical data with high accuracy, reasonable price and fast speed.	Quote for price, 1-2 weeks

<b>Immune-Checkpoint Assays</b>	Assay targets include: PD-1, PD-L1, CTLA-4, OX40, CD40, GITR, 4-1BB, TIGIT, and LAG-3. Final reports include: raw data (7 concentrations) and analyzed data (EC50, dose-response curves of samples and controls)	Quote for price, 1 week
<b>ADCC &amp; CDC Assays</b>	·Ready-to-go <b>ADCCassay</b> format for at least 4 targets: HER2/ErbB2, CD20, EGFR, and TNF $\alpha$ ; Ready-to-go <b>CDC assay</b> format for at least 2 targets: CD20 and TNF $\alpha$ . Large panel of target tumor cell lines free of charge to be used in ADCC assays. PBMC-based or NK cell-based ADCC assay format. CDC assay uses normal human serum as the source of complement. Inquire for <b>ADCP assay</b> .	Quote
<b>Other <i>in vitro</i> Pharmacology Services</b>	Full panel of assays for <b>Protease profiling</b> , <b>GPCR profiling</b> , <b>Kinase profiling</b> , etc. available.	Quote
<b>Bioanalytical Services</b>	<b>Biochemical Assays:</b> Affinity ranking/measurement, Epitope mapping, Antibody sequencing; <b>Cell-based Assays:</b> Immune-checkpoint assays, ADCC/CDC/ADCP, Apoptosis/Proliferation/ Phagocytosis assay, Neutralization assay, Assay cell line development; <b>Protein Analytics:</b> MW analysis, sequence coverage analysis, PTM analysis, Purity test, PI test, Impurity analysis (HCP, HCD, etc.), Charge variant analysis, N/C terminal sequence verification, N-glycan analysis.	Quote

### 8. Assay Cell Line Development

Service	Description	Listing Price	Timeline (Business Days)	Deliverables
<b>Lentivirus Packaging Service</b>	High quality Lentiviral packaging service (SC1394-VP-1)	Customized pricing based on volume and Titer	5 weeks	Purified lentiviral particles
<b>Assay Cell Lines</b>	Stable assay cell line generation: constitutive and inducible overexpressing and silencing cell lines (Use SC6666PF in SC1394, and note in SC6666PF with the cell line name)	Quote based on project	8-25 weeks production time based on complexity of the project; shipping can vary 3-12 weeks based on cell type	Modified cell line cloned or pooled

**Notes and Specifications:**

- 1) Default QC for Lentiviral preps: p24 ELISA, Mycoplasma (Lonza kit), Additional fees for FACS, qPCR, Antibiotic Selection; Bacterial
- 2) Assay Cell line QC western Blot and qPCR. Optional QC/downstream assays are available for an additional cost.

## 9. mRNA Services

### IVT mRNA Production

GenScript's solution to mRNA production streamlines your workflow starting from gene synthesis to IVT mRNA production.

mRNAs produced at GenScript are optimized with our proprietary production platform, ensuring the quality and expression efficiency of your mRNA.

The capacity of the synthesis platform ranges from ug to g to meet the needs of mRNA development at different stages, in addition, capping,

polyA tail and chemical modification are all included in the mRNA synthesis service at no additional cost.

Service	Purification	Amount	List Price (\$*)	TAT (Calendar days)*	PSU Price
<b>RUO-Grade mRNA synthesis</b>	<10 mg use LiCl precipitation; >10 mg use Tangential Flow Filtration (TFF)	0.1 mg	\$500	14	10% off
		0.5 mg	\$1,750	14	
		1 mg	\$3,000	14	
		2 mg	\$4,000	14	
		5 mg	\$5,000	14	
		10 mg	\$7,500	21	
		20 mg	\$9,100	21	
		>20 mg	Quote Required		
<b>Preclinical-Grade mRNA synthesis</b>	Oligo dT purification	1 mg	\$4,400	21	10% off
		2 mg	\$5,500	21	
		5 mg	\$8,000	21	
		10 mg	\$11,500	21	
		20 mg	\$15,600	21	
		>20 mg	Quote Required		

1. Additional time and cost are required to manufacture IVT synthesis DNA template (unless provided by client).
2. mRNA synthesis price includes 5' cap choice (GenScript's proprietary Cap 0 and Cap 1 options), Poly(A) tail up to 120 nt, NPT modifications (5-moU, N1-me-Ψ, 5-me-C + Ψ),
3. delivery/suspension buffer (sodium citrate, TE, RNase-free water), aliquoted into number of vials specified by customer; QC reports, and COA documents.
4. Additional QC packages and options are available for an additional cost. Please see here: [IVT \(In vitro Transcription\) mRNA Production \(genscript.com\)](http://genscript.com)

### IVT Circular RNA Production

Circular RNA is a single-stranded RNA in which the 5' and 3' ends join to form a covalently closed loop. The circular structure confers multiple functional benefits, including improved stability and longer expression duration. GenScript proudly offers custom circular RNA (circRNA) synthesis via our proprietary circRNA IVT manufacturing service.

Service	Purification	Amount	List Price (\$*)	TAT (Calendar days)*	PSU price
<b>RUO-Grade circRNA synthesis</b>	Proprietary HPLC purification	0.1 mg	\$3,000	21	10% off
		0.5 mg	\$5,500	21	10% off
		1mg	\$8,000	21	10% off
		2mg	\$12,500	21	10% off
		5mg	\$25,000	21	10% off
		10mg	\$42,500	21	10% off

1. Additional time and cost are required to manufacture IVT synthesis DNA template (unless provided by client).
2. delivery/suspension buffer (sodium citrate, TE, RNase-free water), aliquoted into number of vials specified by customer; QC reports, and COA documents.
3. Additional QC packages and options are available for an additional cost. Please see here: [Custom Circular RNA Synthesis | GenScript](#)

### Lipid Nanoparticles Service

To streamline the production workflow for mRNA from gene synthesis to delivery, GenScript developed its Lipid Nanoparticles (LNP) service with multiple formulation options, providing delivery solutions for mRNA screening projects with high efficiency and safety. GenScript's mRNA solution will not only facilitate the mRNA research field by saving time and cost but it can also reduce the potential logistical risks involved in each production step.

Service	Formulation Options	Amount	List Price (\$*)	TAT (Calendar days)*	PSU price

LNP Encapsulation	MC3/ SM102/ ALC0315/ LP01	0.2 mg	\$2,000	7	10% off		
		0.5 mg	\$3,500	7	10% off		
		1mg	\$5,500	7	10% off		
		2mg	\$9,500	7	10% off		
		3mg	\$11,500	7	10% off		
		5mg	\$15,000	7	10% off		
		10mg	\$23,000	7	10% off		
		20mg	\$40,000	7	10% off		

1. Additional time and cost are required to manufacture IVT synthesis DNA template and RNA payloads (unless provided by client).
2. delivery/suspension buffer (PBS/Sucrose, PBS, Tris-HCL/Sucrose, Tris-HCL, Mannitol), aliquoted into number of vials specified by customer; QC reports, and COA documents.
3. Additional QC packages and options are available for an additional cost. Please see here: [Lipid Nanoparticle Packaging for Advanced RNA Delivery | GenScript](#)

### 10. Oligo Services

With state-of-art oligo synthesizers and experienced experts in chemical synthesis, GenScript offers custom DNA oligo, RNA oligo and comprehensive modifications

to meet research needs in biology, diagnostics and drug discovery.

Service	Purification Method	Length	Quantity (nmol)	List Price (\$/nt)	TAT (BD)	PSU Price
DNA oligo synthesis	Desalt	15-59 nt	1-5 nmol	\$0.30	2-3	10% off
			6-15 nmol	\$0.30		
			16-20 nmol	\$0.40		
			21-25 nmol	\$0.40		
	PAGE	15-59 nt	1-5 nmol	\$1.20	3	10% off
			6-10 nmol	\$1.20		
			11-15 nmol	\$1.20		
			16-20 nmol	\$1.30		
			21-25 nmol	\$1.30		
	HPLC	15-39 nt	1-5 nmol	\$1.67	5	10% off
			6-15 nmol	\$1.67		
			16-20 nmol	\$2.00		
			21-25 nmol	\$2.00		
RNA oligo synthesis	RNase free	15-60 nt	0-15nmol	\$3.00	8-10	10% off
			16-25nmol	\$5.00		
	HPLC	61-100 nt	0-10nmol	\$3.00	12	10% off

### 11. Molecular Biology Services on GenSmart 2.0

GenSmart™ Codon Optimization employs a novel algorithm inspired by the "Population Immune Algorithm." This approach fuses principles from both population genetics and immunology, thoroughly analyzing over 200 elements contributing to gene expression, such as GC content, codon usage, RNase splicing sites, and cis-acting mRNA destabilizing motifs. Rather than utilizing a singular simulation model, this system incorporates a multifaceted approach, giving importance to all essential aspects of a target gene sequence. Consequently, every gene optimization is individualized, enhancing the likelihood of generating higher expression in your species of choice.

Reference:

1.[WO2020024917A1\\_Codon\\_optimization\\_Patent.pdf](#)

2.Dr. Liu's laboratory at Harvard University; Koblan WL et al. 2018. Improving cytidine and adenine base editors by expression optimization and ancestral reconstruction. *Nature Biotechnology*

Gene Synthesis (SC0001)

SC0001	Sequence Length	Listing Price	Timeline (Business Day)	Price	Comments
<b>Starting from 9-14 Business Days</b>	Mini Charge	\$89	9-13	same	CN site only
	≤1.5kb	\$0.19/bp	9-13	same	
	1.5-3kb	\$0.19/bp	10-14	same	
	3-5kb	\$0.23/bp	14-18	same	
	5-8kb	\$0.27/bp	19-23	same	
<b>Starting from 5-10 Business Days</b>	Mini Charge	\$159	6-10	same	CN Site and US site are available
	≤1.5kb	\$0.35/bp	6-10	≤1kb, \$0.21/bp 1-2kb, \$0.31/bp	
	1.5-3kb	\$0.35/bp	8-12	2-3kb, \$0.32/bp	
	3-5kb	\$0.40/bp	10-14	\$0.38/bp	
	5-8kb	\$0.45/bp	15-19	\$0.40/bp	
<b>Starting from 3-8 Business Days</b>	Mini Charge	\$299	3-7	same	CN Site and US site are available
	≤1.5kb	\$0.7/bp	3-7	0.65/bp	
	1.5-3kb	\$0.7/bp	5-9	0.65/bp	
	3-5kb	\$0.8/bp	7-11	0.75/bp	
	5-8kb	IQR	IQR	IQR	
<b>Starting</b>	Mini Charge	\$299	3-4	same	US site only
	≤1.5kb	\$0.7/bp	3-4	0.65/bp	

<b>from 3-4 Business Days</b>	1.5-3kb	\$0.7/bp	5-6	0.65/bp	will be available in 2024.1
	3-5kb	\$0.8/bp	7-8	0.75/bp	
	5-8kb	IQR	IQR	IQR	

**Standard Delivery:**

- 4 µg of lyophilized plasmid containing your gene insert (1 µg for low-copy plasmid)
- Sequence chromatograms or NGS read depth plot covering your gene (electronic)
- Construct map for the plasmid (electronic)
- Quality assurance certificate

**Note:**

1. Price and Turnaround time for simple genes only
2. Shipping is not included in the estimated turnaround time
3. GenScript guarantees 100% sequencing accuracy for all gene synthesis products.
4. The complexity of gene synthesis will be assessed individually for each gene using GenScript's specialized algorithms. Sequences contain extremely high or low GC content, repetitive areas, inverted repeats, and other factors necessitate more customized adjustments in the manufacturing process. More detail guidelines can be found [here](#).
5. GenScript uses pUC57 as the standard cloning vector at no extra cost.
6. [Example NGS QC report for your gene order](#)

**Cloning (SC0002) Bundle with Gene Synthesis**

Vector Type	Insert Sequence	Listing Price	Timeline (Business Day)	PSU price
GenScript Clone Vector		\$0	0	same
GenScript Expression vector	<=8kb	\$49	2	same
My Archived Vector		\$49	3~5	same
Customer Provide; Not Archive	<=3kb	\$149	5	same
	(3kb~6kb]	\$199	5	same
	(6kb~8kb]	\$249	5	same
All vectors	>8kb	IQR	>10	same

**Subcloning (SC0005)**

	(Template from previous orders)		(Template from Customer)		PSU price
Insert Sequence	Listing Price	Timeline (BD)	Listing Price	Timeline (BD)	same
<=3kb	\$149	from 1-2 week	\$295+(n-1)*\$100	from 1-2 week	same
(3kb~6kb]	\$199	from 2-3 weeks		from 2-3 weeks	same
(6kb~8kb]	\$249	from 3 weeks		from 3 weeks	same
>8kb	IQR	IQR	IQR	IQR	same

**Note:**

1. A list of expression cloning vector list is available at: <http://www.genscript.com/express-cloning-vector-list.html>

2. Must be bundled with Gene synthesis (SC0001). Non-standard non-restriction cloning results in CloneEZ variable Pricing.

**Plasmid Prep (SC0003) Price for Bundle with SC0002**

Tier Level	Tier1	Tier2			Tier3	
<b>Application</b>	For clonal Use	For transfection Use			For Animal Study	
<b>Grade</b>	Research Grade	Industrial Grade			Preclinical Grade	
<b>Quantity</b>	10 µg-1 mg	10 µg-2g			10 mg-2g	
<b>Timeline</b>	Start From 2-7 Business Day			Start from 2 Weeks		
<b>Supercoil</b>	Predominantly	>80%			>90%	
<b>Endotoxin</b>	No Guarantee	≤0.1EU/µg	≤0.01EU/µg	≤0.005EU/µg	≤0.01EU/µg	≤0.005EU/µg
<b>10 µg</b>	\$19	\$29	\$39	\$89	-	-
<b>30 µg</b>	\$29	\$49	\$69	\$119	-	-
<b>100 µg</b>	\$39	\$89	\$99	\$149	-	-
<b>200 µg</b>	\$69	\$129	\$139	\$189	-	-
<b>500 µg</b>	\$99	\$179	\$199	\$249	-	-
<b>1 mg</b>	\$119	\$219	\$239	\$289	-	-
<b>2 mg</b>	-	\$259	\$279	\$329	-	-
<b>5 mg</b>	-	\$379	\$419	\$469	-	-
<b>10 mg</b>	-	\$619	\$679	\$729	\$1,199	\$1,249
<b>20 mg</b>	-	\$989	\$1,099	\$1,149	\$1,799	\$1,849
<b>50 mg</b>	-	\$1,979	\$2,199	\$2,289	\$3,499	\$3,589

<b>100 mg</b>	-	\$3,329	\$3,699	\$3,879	\$5,499	\$5,679
<b>200 mg</b>	-	\$4,229	\$4,699	\$5,049	\$6,999	\$7,349
<b>500 mg</b>	-	\$6,929	\$7,699	\$8,569	\$11,599	\$12,469
<b>1 g</b>	-	\$11,699	\$12,999	\$14,729	\$17,599	\$19,329
<b>1.5 g</b>	-	\$16,199	\$17,999	\$20,589	\$24,299	\$26,889
<b>2 g</b>	-	\$20,699	\$22,999	\$26,449	\$31,099	\$34,549
<b>Discounts</b>	10% off	10% off	10% off	10% off	10% off	10% off

Plasmid Prep (SC0003) Price for template from Ark or from customers

Tier Level	Tier1	Tier2			Tier3	
<b>Application</b>	For clonal Use	For transfection Use			For Animal Study	
<b>Grade</b>	Research Grade	Industrial Grade			Preclinical Grade	
<b>Quantity</b>	30 µg-1 mg	30 µg-2g			10 mg-2g	
<b>Timeline</b>	Start From 7 Business Day			Start from 2 Weeks		
<b>Supercoil</b>	Predominantly	>80%			>90%	
<b>Endotoxin</b>	No Guarantee	≤0.1EU/µg	≤0.01EU/µg	≤0.005EU/µg	≤0.01EU/µg	≤0.005EU/µg
<b>30 µg</b>	\$29	\$49	\$69	\$119	-	-
<b>100 µg</b>	\$39	\$89	\$99	\$149	-	-
<b>200 µg</b>	\$69	\$129	\$139	\$189	-	-
<b>500 µg</b>	\$99	\$179	\$199	\$249	-	-
<b>1 mg</b>	\$119	\$219	\$239	\$289	-	-
<b>2 mg</b>	-	\$259	\$279	\$329	-	-
<b>5 mg</b>	-	\$379	\$419	\$469	-	-
<b>10 mg</b>	-	\$769	\$849	\$899	\$1,199	\$1,249
<b>20 mg</b>	-	\$1,169	\$1,299	\$1,349	\$1,799	\$1,849
<b>50 mg</b>	-	\$2,429	\$2,699	\$2,749	\$3,499	\$3,589
<b>100 mg</b>	-	\$4,139	\$4,599	\$4,649	\$5,499	\$5,679
<b>200 mg</b>	-	\$5,219	\$5,799	\$5,849	\$6,999	\$7,349
<b>500 mg</b>	-	\$8,639	\$9,599	\$9,649	\$11,599	\$12,469
<b>1 g</b>	-	\$14,399	\$15,999	\$16,049	\$17,599	\$19,329
<b>1.5 g</b>	-	\$20,699	\$22,999	\$23,049	\$24,299	\$26,889
<b>2 g</b>	-	\$26,099	\$28,999	\$29,049	\$31,099	\$34,549
<b>Discounts</b>	10% off	10% off	10% off	10% off	10% off	10% off

**Note:**

1. Animal-free production with TSE/BSE certification is available as an optional add-on.
2. Must be bundled with Cloning (SC0002). The price and timeline is for high copy plasmid, quote for low copy plasmid.

3. Larger quantities to gram scale available, quote for price and turnaround time

4. GenScript's plasmid preparation service ensures delivery of plasmids in equal or greater quantities than those specified

5. 10µg is only applied for bundled plasmid

Plasmid Linearization (SC0003-L) Need to bundle with SC0003

Enzyme Site	['EcoRI','HindIII','BamHI','Xhol','EcoRV','XbaI','KpnI']		['ScaI','BsaI','PvuI','NotI','BspQI']	
SC0003 Tier	Tier 1&2		Tier 1&2	
Quantity	LSP \$	TAT (CD)	LSP \$	TAT (CD)
30µg	\$89	3	\$89	3
100µg	\$89	3	\$89	3
200µg	\$89	3	\$89	3
500µg	\$199	3	\$199	3
1mg	\$209	4	\$209	4
2mg	\$291	4	\$352	4

Note:

Linearized quantity >5mg, need IQR

The price and timeline is for high copy plasmid, quote for low copy plasmid.

Concentration >2mg/ml, need IQR

#### Site mutagenesis (SC0004)

SC0004	Bundled with gene synthesis		Template from Ark		Template from Customer	
Insert Sequence Length	Listing Price	TAT (BD)	Listing Price	TAT (BD)	Listing Price	TAT (BD)
<=3kb	\$99*M	5	\$99*M	5	\$169*M+\$100(N-1)	8
(3kb~8kb]	\$99*M+\$100	5	\$99*M+\$100	5		
(8kb~15kb]	\$99*M+\$599	10				
(15kb~20kb]	\$99*M+\$1299	10				
(20kb~30kb]	\$99*M+\$2199	15				
(30kb~50kb]	\$99*M+\$3199	15				
(50kb~100kb]	\$99*M+\$16999	20				
(100kb~200kb]	\$99*M+\$16999	>20				
>200kb	IQR	IQR				

Comments	TAT is just for mutation sites <6; IQR is required when mutation sites are $\geq 6$ .	TAT is just for mutation sites=1 or 2; Need to add 7 days when mutation sites=3,4,5; IQR is required when mutation sites are $\geq 6$ .
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Note:

7.5% off

M: Mutation number, Any combination of base changes within a 30-base frame

N: round# of Kb of insert length (e.g, for 0.4kb, n=1, 1.4kb, n=2)

## II. Catalog Products

GenScript offer a wide variety of catalog products. Product offerings include but not limited to:

- Molecular Biology Reagents for PCR, Cloning, Plasmid Prep and Gel extraction
- CRISPR Products
- Reagents for Protein Purification and Analysis
- PAGE gel and DNA electrophoresis
- Endotoxin Detection and Removal system
- Recombinant Proteins including Cytokines, Chemokines, Growth factors, Immune Checkpoints and Tag cleavage enzymes
- Antibodies including Primary, Secondary, Anti-idiotype and Epitope antibodies
- IVD Biological Materials
- Off-the-shelf stable cell lines (Immune Checkpoints, GPCR)

A complete list of GenScript's catalog products can be viewed via the link below:

<http://www.genscript.com/products.html>

PSU discount

## **III.CONFIDENTIALITY**

GenScript considers the information contained herein as confidential information. In consideration for receipt hereof, Client shall not disclose the information contained herein to third parties absent written pre-approval from GenScript.

## **IV.PRICING CONDITIONS**

Pricing is based upon the service specifications of GenScript. GenScript reserves the right to change prices for Services and Products at any time, and does not provide price protection or refunds in the event of a price drop or promotional offering. Client will be consulted and notified in writing if pricing changes.

## **V.SHIPPING AND HANDLING**

All packages are shipped via FedEx Express for US clients unless otherwise requested by client. Shipping and Handling charges will be added to the original invoice.

## VI. MILESTONE DISCOUNT AND MILESTONE REBATE CREDITS

GenScript will provide PSU a milestone discount once the following purchase or payment milestone is reached.

1. When passing \$150k milestone, there will be an additional discount 2.5%
2. When passing \$500k milestone, there will be an additional discount of 4%
3. When passing \$1.0M milestone, there will be an additional discount of 5%
4. When passing \$1.2M milestone, there will be an additional discount of 6% (maximum)

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