

SECTION I CONTRACT PRICING

1. Gene Synthesis and Molecular Biology Services

A. Gene Synthesis Pricing

Speed	Cat. No.	List Price (\$/bp)	Discount % off List Price	Iowa State Price (\$/bp)	Production time Calendar days	Length	Genes Per Order
Express Rush Gene Synthesis	SC1575	\$1.34	10%	\$1.21	4	≤ 2000bp	No Restriction
	SC1619	\$0.65		\$0.59	5	≤ 5000bp	
Express Fast Gene Synthesis	SC1010	\$0.35	20%	\$0.28	8	No Restriction	
		Min Price \$159		Min Price \$129			
Standard Gene Synthesis	SC1843	\$0.23	10%	\$0.21	14	No Restriction	
		Min Price \$99		Min Price \$99			
High Throughput Gene Synthesis	SC1645	\$0.15	20%	\$0.12	17	400-1,500 bp	≥20 item
		Min Price \$99		Min Price \$99			

B. Cloning Pricing

Service	Standard Price	For Iowa State University	Typical Turnaround (business days)	Note
Direct Cloning (Bundled with Express Rush, Express Fast and Standard Gene Synthesis)	Insert length <3kb \$149 3-6kb \$ \$199 6-10kb \$249 >10kb quote	Waived	0-2 days for 1-3kb gene, 1-3 more days for each additional kb.	Only deliver constructs in client's vector
	Insert length <3kb \$149 3-6kb \$ \$199 6-10kb \$249 >10kb quote	Insert length <3kb \$134.10 3-6kb \$179.10 6-10kb \$224.10 >10kb quote	0-2 days for 1-3kb gene, 1-3 more days for each additional kb.	Free subcloning into 1 st vector, then subcloning into the 2 nd vector will go by the special pricing in this row.
Subcloning (Bundled with GenPlus™ HT Gene Synthesis)	\$20/Subcloning \$499 setup fee/construct	\$20/subcloning NO setup fee/construct	3-5 days for 1-3kb gene, 1-3 more days for additional kb.	Only deliver constructs in client's vector
Express Cloning (Bundled with Express Rush, Express Fast and Standard Gene Synthesis)	\$49/construct	Waived	0-2 days for 1-3kb gene, 1-3 more days for each additional kb.	Only deliver in client's choice of vector from a list of over 150 free vectors, for use in mammalian, bacterial, yeast, or baculovirus/insect expression systems
Custom Cloning	Starting from \$295 for PCR cloning into commercially available vectors for genes <1kb. Additional charge \$100 for each additional 1 kb. Extra charge of \$100 apply for cloning into non-commercial vector, rare enzyme or orientation screening	10% off	2 weeks for regular projects Additional 1 week for low copy vector	N/A

C. List of GenScript Express Cloning Vectors (standard vectors) to deliver the gene of interest (no additional cost)

<u>Mammalian</u>	<u>Yeast</u>	<u>Bacterial</u>		
			pET-27b(+)	pMAL-c4x
			pET-28a(+)	pMAL-c5E
pcDNA3.1(+)	pAO815 pPIC	pBluescript II	pET-28a(+)-	pMAL-c5x
pcDNA3.1(-)	3.5k pPIC9	KS(-)	TEV	pMAL-p5E
pcDNA3.1(+)_myc-His A	pPIC9K	pBluescript II	pET-28b(+)	pMAL-p5G
pcDNA3.1(+)_myc-His B	pPICZA	KS(+)	pET-28c(+)	pMAL-p5X
pcDNA3.1(+)_myc-His C	pPICZB	pBluescript II	pET-29a(+)	pQE-1
pcDNA3.1(-)_myc-His A	pPICZC	SK(-)	pET-29b(+)	pQE-60 pGS-
pcDNA3.1(-)_myc-His B	pPICZalphaA	pBluescript II	pET-29c(+)	21a pETDuet-1
pcDNA3.1(-)_myc-His C	pPICZalphaB	SK(+)	pET-30a(+)	pCDFDuet-1
pCI-Neo	pPICZalphaC	pET-3a	pET-30b(+)	pRSFDuet-1
pcDNA3.1+C-DYK	pESC-TRP	pET-3b	pET-30c(+)	pCOLADuet-1
pcDNA3.1+C-HA	pESC-URA	pET-3c	pET-31b(+)	pGEX-4T-1-H(RBS)
pcDNA3.1+C-6His	pESC-HIS	pET-3d	pET-32a(+)	pGEX-4T-1-M(RBS)
pcDNA3.1+C-Myc	pESC-LEU	pET-9a	pET-32b(+)	pGEX-5X-1-H(RBS)
pcDNA3.1+N-DYK		pET-11a	pET-41a(+)	pGEX-5X-1-M(RBS)
pcDNA3.1+N-HA	<u>Baculovirus/Insect</u>	pET-11b	pET-41b(+)	pGEX-6P-1-H(RBS)
pcDNA3.1+N-6His	pBacPAK8	pET-11c	pET-41c(+)	pGEX-6P-1-M(RBS)
pcDNA3.1+N-Myc	pBacPAK9	pET-11d	pET-42a(+)	pMAL-c4x-1-H(RBS)
pcDNA3.1+N-	pAcG2T	pET-14b	pET-42b(+)	<u>pMAL-c4x-1-M(RBS)</u>
GST(Thrombin)	pAcHLT A	pET-15b	pET-42c(+)	
pcDNA3.1+N-GST(TEV)	pAcHLT B	pET-16b	pET-	
pcDNA3.1/Hygro(+)	pAcHLT C	pET-17b	43.1a(+)	
pcDNA3.1/Hygro(-)	pAcGHLT A	pET-19b	pET-	
pcDNA3.1/Zeo (+)	pAcGHLT B	pET-20b(+)	43.1b(+)	
pcDNA3.1/Zeo (-)	pAcGHLT C	pET-21a(+)	pET-45b(+)	
pCMV-3Tag-1a		pET-21b(+)	pET-50b(+)	
pCMV-3Tag-2a	pAcSG2	pET-21d(+)	pET-51b(+)	
pCMV-3Tag-3a	pBAC-1	pET-22b(+)	pET-52b(+)	
pCMV-3Tag-4a	pFastBac1	pET-23a(+)	pGEX-2TK	
pcDNA3.1+C-eGFP	pFastBacHT-A	pET-24a(+)	pGEX-4T-1	
pcDNA3.1+N-eGFP	pFastBacHT-B	pET-24a(+)-TEV	pGEX-4T-2	
pcDNA3.1+P2A-eGFP	pFastBacHT-C	pET-24b(+)	pGEX-4T-3	
pcDNA3.1-P2A	pFastBac-Dual	pET-24c(+)	pGEX-5X-1	
pcDNA3.1+N-DYK-P2A		pET-24d(+)	pGEX-5X-2	
pcDNA3.1+C-DYK-P2A		pET-25b(+)	pGEX-5X-3	
pCMV-3Tag-1a-P2A		pET-26b(+)	pGEX-6P-1	
pCMV-3Tag-3a-P2A			pGEX-6P-2	
			pGEX-6P-3	

D. Additional Notes:

- a. Minimum charge for Express Rush and Express Fast gene synthesis is \$129/gene. If the cost of a single gene is less than \$129.00 using the rate above, client will be charged \$129.00 for that gene.
- b. Minimum charge for Standard and High Throughput Gene Synthesis is \$99/gene. If the cost of a single gene is less than \$99/gene using the per base pair rate above, client will be charged \$99 for that gene.
- c. For gene synthesis, codon optimization is complimentary; sequencing confirmation is provided with 100% accuracy
- d. A miniprep (~4 µg) of lyophilized plasmid DNA will be delivered to client; QC data includes sequencing data, alignment file, and COA (certificate of analysis)
- e. Complex genes will take longer to synthesize.
- f. There is no additional charge for gene targets that have high GC content, repetitive sequences.
- g. No additional charge for direct cloning even when the insert is complex.
- h. For all gene synthesis, we'll start counting the day from when the order is confirmed till the day the gene is shipped out. The cutoff time for confirmation is 12:00 p.m. In other words, if you confirm the sequence and provide the payment information after 12:00 p.m., the next day will be counted as day one. If we cannot meet the guaranteed timeline, we will charge at a reduced rate that meets the time requirement listed above.
- i. Online Portal with detailed information (gene name, sequences, QC data, ordering time, etc) of all orders.
- j. Split shipping upon item completion without additional charge.
- k. For orders using the GenPlus service, if a single order contains >25 genes, we will arrange High Priority to make turnaround time close to regular service.

2. Antibody Services (Secondary to ISU Hybridoma Facility)

A. Polyclonal Antibody Services

Service Type	Description	Listing Price	For Iowa State University	Turnaround time (business days)
PolyExpress™ Gold, Silver, and Basic Services	PolyExpress™ Antibody packages deliver high quality antibodies in just 45 days (from order to delivery), 2 months faster than traditional immunization protocols.	Quote	5% off	Quote
Standard Polyclonal Antibody Services	Standardized polyclonal antibody services include production of custom polyclonal antibodies from a variety of host species including mouse, rat, and rabbit.	Quote	5% off	Quote
Custom Polyclonal Antibody Services	Customized development packages for polyclonal antibodies	Quote	5% off	Quote

B. Monoclonal Antibody Services

Service Type	Description	Listing Price	For Iowa State University	Turnaround time (business days)
MonoExpress™ Gold, Silver, Bronze and Basic Monoclonal Antibody Services	MonoExpress™ services 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	5% off	Quote High Priority
Standard Monoclonal Antibody Services	Standardized monoclonal antibody services include production of custom monoclonal antibodies	Quote	5% off	Quote High Priority
Customized Monoclonal Antibody Services	Customized development packages for monoclonal antibodies	Quote	5% off	Quote High Priority

C. Additional Notes:

- a. GenScript offers OptimumAntigen™ design tool and intelligent Antigen Strategy that can increase the specificity and affinity of antibodies.
- b. GenScript antibody facility is with AAALAC International accreditation and OLAW certified, demonstrating our commitment to responsible animal care and use.
- c. GenScript offers best guarantees in the antibody service industry including Western-guaranteed packages and ELISA titer guarantees. Guarantee varies in packages and restrictions may apply.

3. Other Related Services (Secondary to ISU Protein Facility)

A. Peptide Services

Service Type	Description	Listing Price	For Iowa State University	Turnaround time (business days)
Custom Peptide Synthesis	Chemical peptide synthesis	Quote (by amount, purity, sequence length and modifications)	<p>15% off</p> <p>(Not applicable to difficult peptides)</p> <p>Free Solubility testing and report</p> <p>Free pooling</p>	Quote
Custom Peptide Library Synthesis	>24 peptides	Quote (by amount, purity, sequence length and modifications)	<p>15% off</p> <p>(Not applicable to difficult peptides)</p> <p>Free pooling</p>	Quote

Notes and Specifications:

- i. To protect the activity of your custom peptides, all synthesized peptides are sealed in argon gas- filled vials to prevent oxidization and deliquescence, at no additional cost.
- ii. GenScript provides pooling services (free for client).
- iii. For peptide library services, the length of peptides need to be within 5 to 25 amino acids. For peptides longer than 25AA, additional evaluation is needed.
- iv. Every step of peptide synthesis is subject to GenScript's stringent quality control. Typical delivery specifications include: Lyophilized peptide of the required sequence, purity, and quantity aliquoted into # of vials specified by customer; QC reports including MS spectra, HPLC chromatograms, and COA documents.

B. Protein Expression Services

Service Type	Description	Listing Price	For Iowa State University	Turnaround time (business days)
Guaranteed protein expression packages	Guaranteed protein expression packages offer a comprehensive panel of options for target protein production in <i>E. coli</i> , Yeast, Baculovirus/Insect and Mammalian system, with guaranteed protein amounts, purity, endotoxin levels and the option of producing tag-free proteins as well, to meet a variety of research needs.	Quote	5% off. For more than 6 proteins in one order, 10% off the entire order.	Quote
Custom protein expression packages	Custom protein expression packages offer a comprehensive panel of options for target protein production in <i>E. coli</i> , Yeast, Baculovirus/Insect and Mammalian system. Every step of the process can be customized, from codon optimization to gene synthesis to small scale testing, scale-up and eventually protein purification and characterization.	Quote	5% off. For more than 6 proteins in one order, 10% off the entire order.	Quote

Notes and Specifications:

- i. Protein sequences are subject to evaluation for quote.
- ii. Guaranteed packages apply to various combinations of protein quantity, purity and endotoxin level.
- iii. Guaranteed packages are not applicable to membrane proteins, toxic proteins and target proteins greater than 100kDa.
- iv. Protein requests greater than 15mg will be quoted for custom protein production, and they will not be eligible for the guarantees.
- v. To increase the expression level of your protein, codon optimization using our proprietary, OptimumGene™ technology, will be performed for gene synthesis in the guaranteed packages.
- vi. Insoluble proteins maybe subject to FoldArt™ technology, GenScript's proprietary protein refolding platform.
- vii. All timelines are estimates. In most cases, we deliver within 6 weeks. However, optional steps may extend the overall timeline to different degrees.

4. Catalog Products

All catalog products are 15% off for Iowa State University.

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

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

Product offering includes: Reagents for Protein Isolation and Analysis; PAGE and DNA electrophoresis; Recombinant Proteins including Cytokines and Chemokines; Antibodies; Molecular Biology Reagents for PCR and Plasmid Prep.