

Getting started with

GenScript TurboCHO™

SmartQuote Tool

Guidebook



GenScript

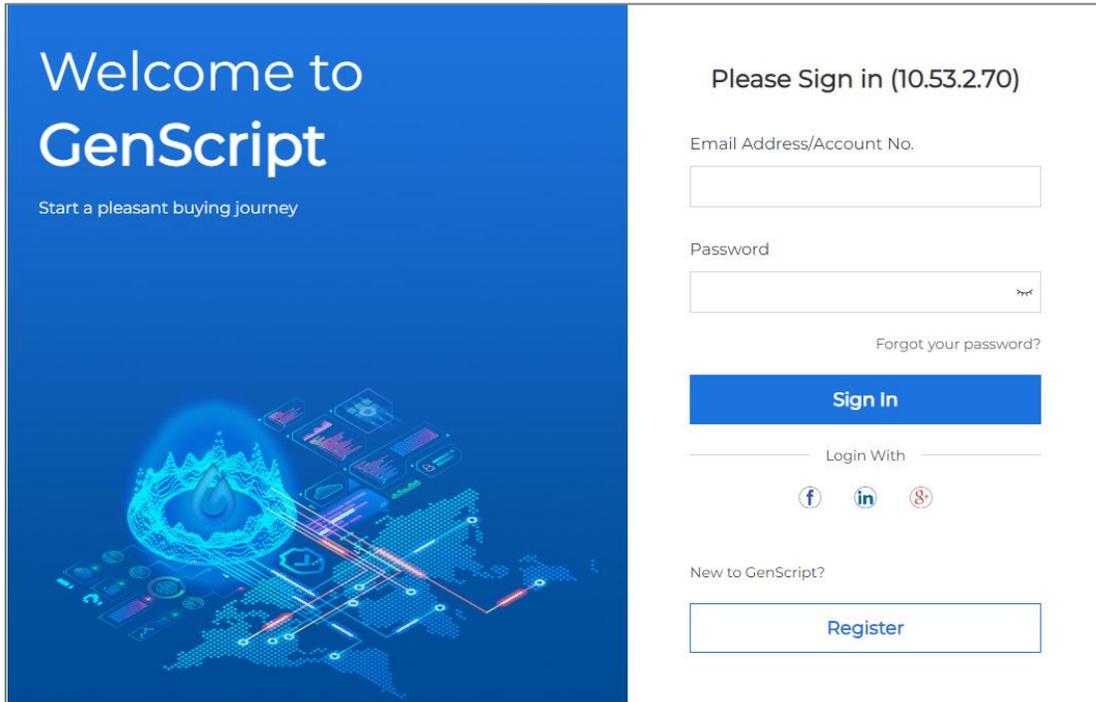
Make Research Easy

Contents

1	Start a new project.....	2
2	Essential Tips Before Uploading Your Sequences	5
3	Volume-Based Package	7
4	Guaranteed Yield-Based Package	11

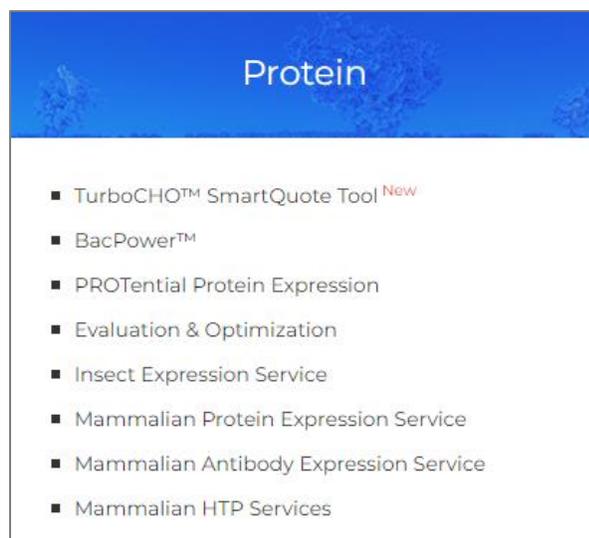
1 Start a new project

1. Log in your GenScript account.

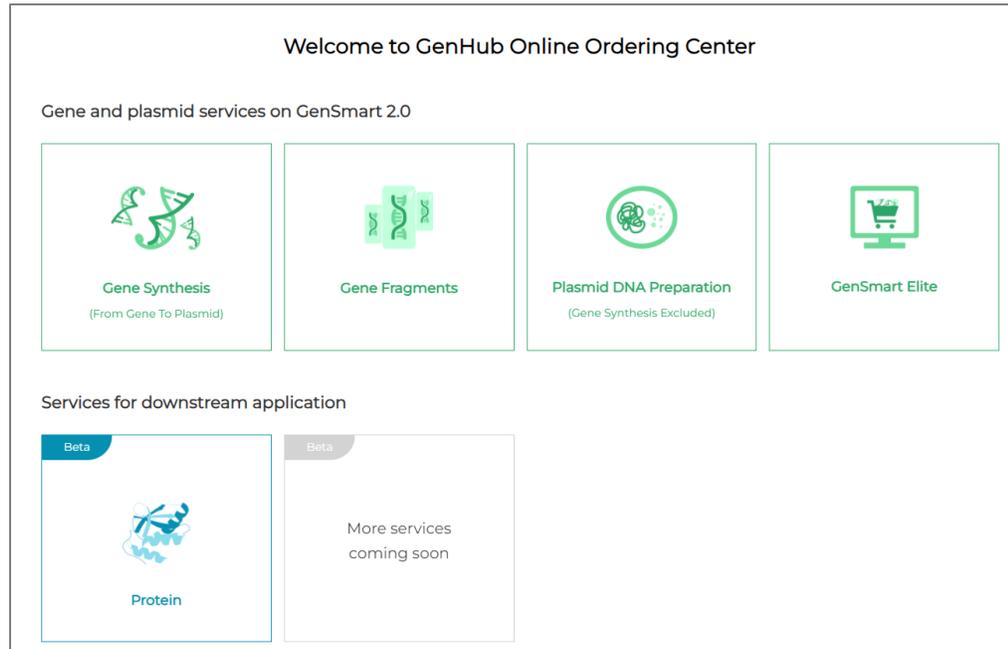


The screenshot shows the GenScript login interface. On the left, a blue banner reads "Welcome to GenScript" with the tagline "Start a pleasant buying journey" and a graphic of a glowing blue globe with data points. On the right, the "Please Sign in (10.53.2.70)" form includes fields for "Email Address/Account No." and "Password", a "Forgot your password?" link, a blue "Sign In" button, and social media login options for Facebook, LinkedIn, and Google. At the bottom, there is a "New to GenScript?" section with a "Register" button.

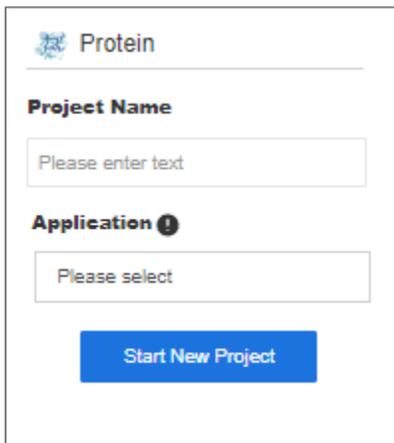
2. There are three ways you can find TurboCHO™ SmartQuote Tool.
 - a. Click "Order Now" button on the service pages to enter directly.
 - b. Click "Quick Order" button on the service pages, and choose TurboCHO™ SmartQuote Tool under the Protein section.



- c. Enter GenSmart™ 2.0 Online Ordering under the Molecular Biology section, and choose “Protein” to enter TurboCHO™ SmartQuote Tool.



3. Enter the project name, select the application, and then click "Start New Project" to access the service page.



4. Select the service type based on either Volume-Based Package or Guaranteed Yield-Based Package.
 - a. When choosing the **Volume-Based Package**, you can select the antibody format and expression volume. The TurboCHO™ Volume-Based Package is capable of expressing antibodies ranging from 1 mL to 200L for standard IgG, VHH-Fc, and scFv-Fc. We provide the target yield of each expression volume option based on Human IgG for your reference.

- b. When choosing for the **Guaranteed Yield-Based Package**, you can select the guaranteed service supporting isotype among Human IgG1, Human IgG4, Mouse IgG2a, Rabbit IgG and VHH- Human IgG1 Fc (with wild type constant regions). The TurboCHO™ Guaranteed Yield-Based Package is able to express antibodies from 100µg to 1g.

2 Essential Tips Before Uploading Your Sequences

1. The corresponding antibody format and plasmid sequence construction are at the upper left corner for your reference.



Full Length of Heavy Chain= Default Signal Peptide + VH Sequence+ CH Sequence
Full Length of Light Chain= Default Signal Peptide + VL Sequence + CL Sequence

2. "How to Order" will provide a simple overview for the entire ordering process.

 [How to Order?](#)

3. "V/C Region Extraction Tool" can efficiently extract all the required antibody sequences at once. Please note that the tool uses bioinformatic analysis to extract, so there is a need of extra check to ensure all fragments are reasonable.

[V/C Region Extraction Tool](#)

4. "Download Template" allows you easily fill in a number of sequences with the excel template.

 [Download Template](#)

5. Antibodies have three statuses: unverified, standard, and non-standard.

Unverified

When the sequence is not verified or is adjusted after verification, the status is labeled as "Unverified."

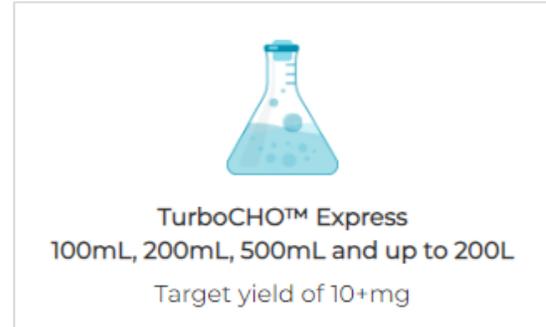
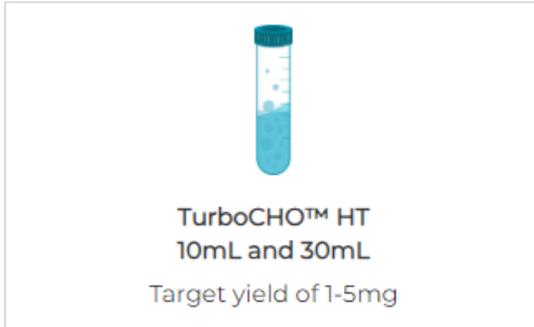
Standard

A "Standard" status indicates that the antibody can be ordered at the standard price and timeline.

Non standard

A "Non-standard" status means that the antibody requires a manual evaluation by our Technical Account Manager (TAM) or Project Manager (PM).

6. For TurboCHO™ HT (10mL/30mL) and TurboCHO™ Express (100mL – 200L), you can choose production in either China or Singapore. Please note that you can only choose one production site for all the items in the cart. If your cart already contains items from one site, you will not be able to choose the other site for new items.

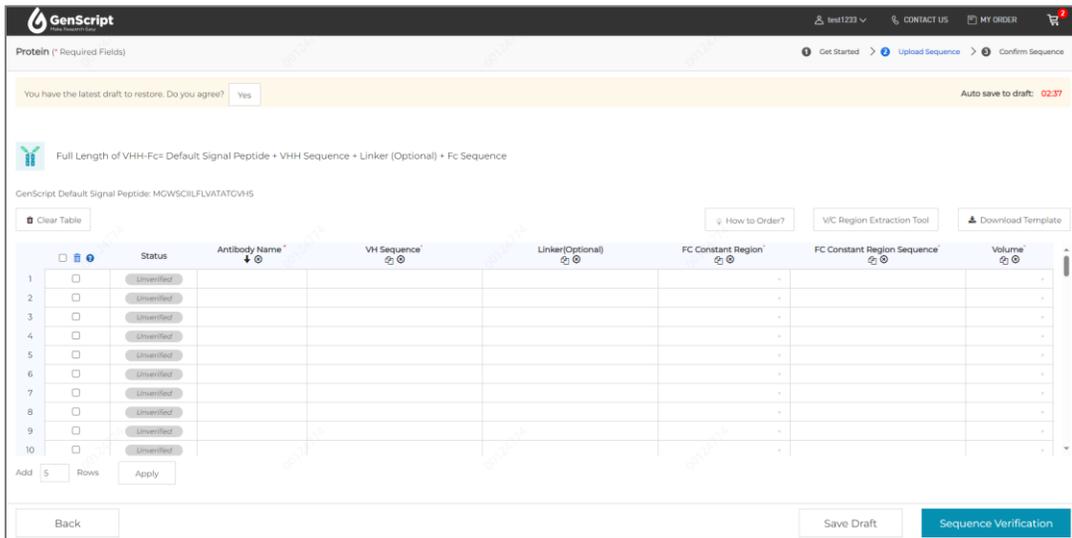


7. When you have multiple antibodies that meet the same requirements, you can use the “Copy to all” function to apply the content of the first grid to the others.

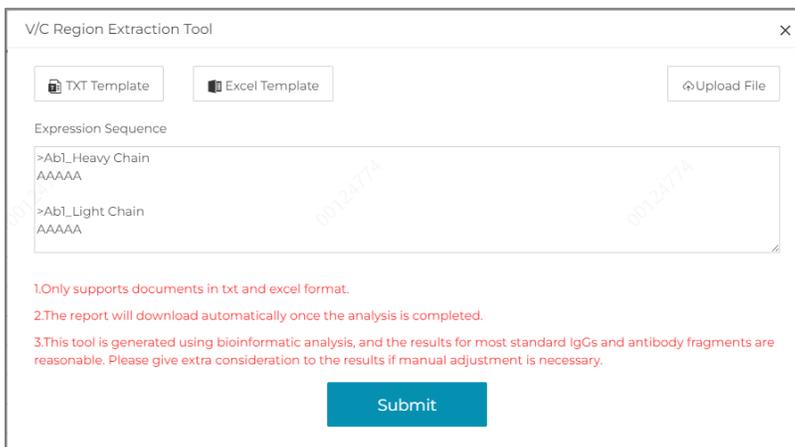


3 Volume-Based Package

1. The table contains the default blank rows. If you'd like to add more sequences, please use the "add rows" function at the bottom left side.



2. If the sequences haven't been split in advance, you can use the **V/C Region Extraction Tool** to help extract them. The tool is compatible with txt and excel documents, and is also acceptable of inputting the FASTA format sequences into the text box.



3. **Download the sequence template**, and fill out the antibodies than you'd like to produce. Then simply drop the filled template into the table. If there aren't many sequences, you can fill in the table directly.

GenScript Default Signal Peptide: MGWSCILFLVATATGVHS

Clear Table

	<input type="checkbox"/>	Status	Antibody Name*	VH Sequence*	Linker1*
1	<input type="checkbox"/>	Unverified			
2	<input type="checkbox"/>	Unverified			
3	<input type="checkbox"/>	Unverified			
4	<input type="checkbox"/>	Unverified			
5	<input type="checkbox"/>	Unverified			
6	<input type="checkbox"/>	Unverified			
7	<input type="checkbox"/>	Unverified			
8	<input type="checkbox"/>	Unverified			
9	<input type="checkbox"/>	Unverified			

Add Rows

4. Click **"Sequence Verification"**, the Tool will evaluate the sequences and return with results. The non-standard antibodies will be displayed at the front, allowing you to determine if they require adjustments. If all sequences are verified, you can proceed by clicking "Continue."

Sequence Verification Summary

Non standard (1 out of 96) Non standard indicates this antibody needs further manual evaluation.

Standard (95 out of 96) Standard indicates this antibody is ready to place the order with standard price and timeline.

NO.	Status	Antibody Name
54	Non standard	antibody 54
1	Standard	antibody 1
2	Standard	antibody 2
3	Standard	antibody 3
4	Standard	antibody 4
5	Standard	antibody 5

Note: Items tagged with "Non standard" need to be submitted for a quote evaluation.

5. Before **adding to cart**, make sure to thoroughly review all antibody sequences and agree with the default service information.

- a. For TurboCHO™ HT 10mL/30mL & TurboCHO™ Express services, please choose the storage buffer, additional QC, aliquot, and production site for the antibodies as well.

Full Length of Heavy Chain= Default Signal Peptide + VH Sequence+ CH Sequence
 Full Length of Light Chain= Default Signal Peptide + VL Sequence + CL Sequence

GenScript Default Signal Peptide: MGWSCRILFLVATGVHS

Download Order Details

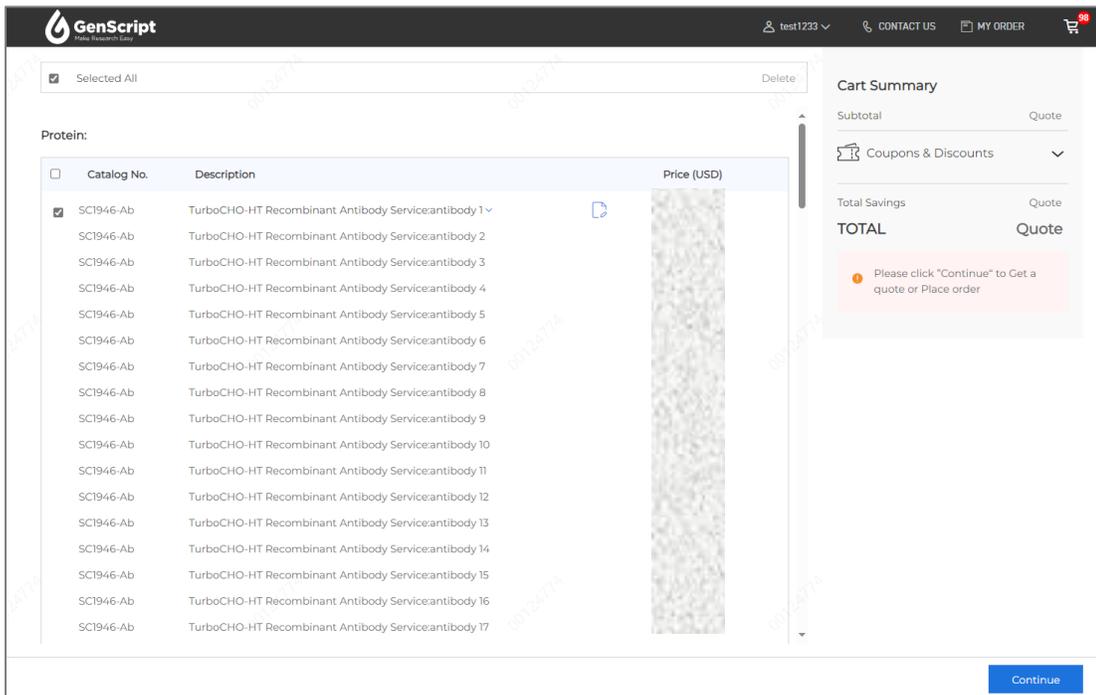
Clear Table

Sequence Analysis	Antibody Name	Variable Region	Constant Region	Volume	Storage Buffer	Additional QC	Aliquot	Production Site
1	Comming Soon	aa	VL: QLVLTQSPASASLGASVKLTCT... VH: EVQLVESGGDLVQPCCSLRSL... LC(Human Ig kappa)RTVAAPSVF... HC(Human IgG4)ASTKGPSVFLP...	10ml	PBS, pH 7.4	SDS-PAGE,Endotoxin	Default by GenScript	China
2	Comming Soon	bb	VL: QLVLTQSPASASLGASVKLTCT... VH: EVQLVESGGDLVQPCCSLRSL... LC(Human Ig Lambda)GQPKAAP... HC(Human IgG1)ASTKGPSVFLA...	10ml	PBS, pH 7.4	SDS-PAGE,Endotoxin	Default by GenScript	China
3	Comming Soon	cc	VL: QLVLTQSPASASLGASVKLTCT... VH: EVQLVESGGDLVQPCCSLRSL... LC(Rabbit Ig Lambda)GQPAVTPS... HC(Rabbit IgG)GQPKAPSVFLAP...	10ml	PBS, pH 7.4	SDS-PAGE,Endotoxin	Default by GenScript	China
4	Comming Soon	dd	VL: QLVLTQSPASASLGASVKLTCT... VH: EVQLVESGGDLVQPCCSLRSL... LC(Mouse Ig kappa)RADAAPFVSL... HC(Mouse IgG2a)AKTAPSVVPLA...	10ml	PBS, pH 7.4	SDS-PAGE,Endotoxin	Default by GenScript	China
5	Comming Soon	ee	VL: QLVLTQSPASASLGASVKLTCT... VH: EVQLVESGGDLVQPCCSLRSL... LC(Rat Ig kappa)GDPVARTVLIFP... HC(Rat IgG2a)AETTAPSVVPLAPC...	10ml	PBS, pH 7.4	SDS-PAGE,Endotoxin	Default by GenScript	China

Service Default Information:
 Cell Line: CHO-S
 Purification: One-step Purification (Protein A)
 QC: CE-SDS, SEC-HPLC
 Endotoxin: Randomly select 5% samples (total sample size >= 4) to test endotoxin level, target <1 EU/mg

Back Save Draft Add To Cart

6. Standard antibodies will have specific prices listed, while non-standard antibodies will display "Quote" in the Price column. If an order includes the non-standard antibody, the total price and timeline will be indicated as "Quote".



Selected All Delete

Protein:

Catalog No.	Description	Price (USD)
<input checked="" type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 1	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 2	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 3	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 4	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 5	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 6	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 7	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 8	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 9	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 10	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 11	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 12	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 13	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 14	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 15	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 16	
<input type="checkbox"/> SC1946-Ab	TurboCHO-HT Recombinant Antibody Service:antibody 17	

Cart Summary

Subtotal Quote

Coupons & Discounts

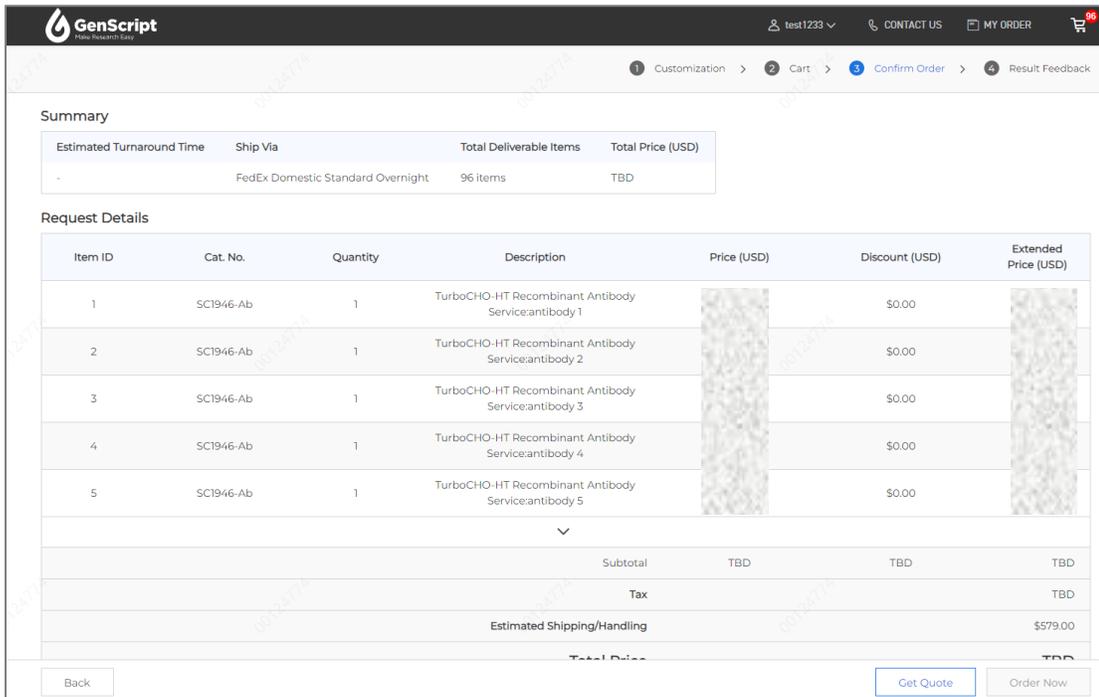
Total Savings Quote

TOTAL Quote

Please click "Continue" to Get a quote or Place order

Continue

7. Review the request details, and **fill in the payment and shipping information.**



Summary

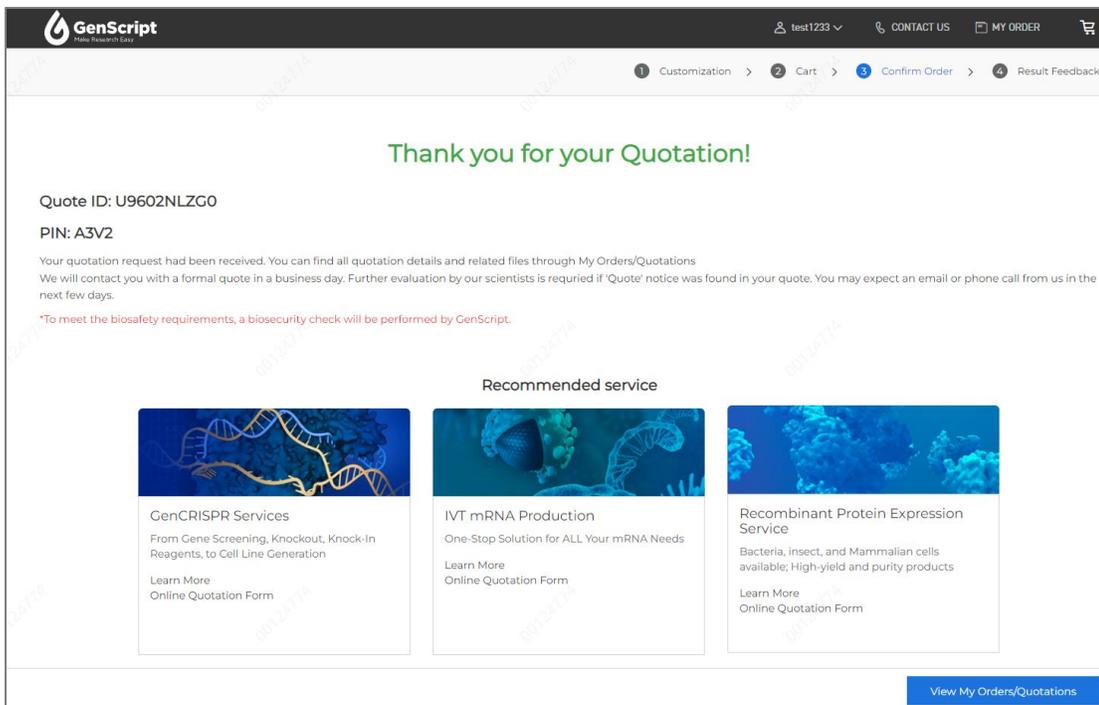
Estimated Turnaround Time	Ship Via	Total Deliverable Items	Total Price (USD)
-	FedEx Domestic Standard Overnight	96 items	TBD

Request Details

Item ID	Cat. No.	Quantity	Description	Price (USD)	Discount (USD)	Extended Price (USD)
1	SC1946-Ab	1	TurboCHO-HT Recombinant Antibody Service:antibody 1		\$0.00	
2	SC1946-Ab	1	TurboCHO-HT Recombinant Antibody Service:antibody 2		\$0.00	
3	SC1946-Ab	1	TurboCHO-HT Recombinant Antibody Service:antibody 3		\$0.00	
4	SC1946-Ab	1	TurboCHO-HT Recombinant Antibody Service:antibody 4		\$0.00	
5	SC1946-Ab	1	TurboCHO-HT Recombinant Antibody Service:antibody 5		\$0.00	
Subtotal				TBD	TBD	TBD
Tax						TBD
Estimated Shipping/Handling						\$579.00
Total Price						TBD

Buttons: Back, Get Quote, Order Now

8. Click **“Get Quote”** or **“Order Now”**, the quote / order is submitted! For the quote, your TAM will update the quote and get back to you in 24 hours.



Thank you for your Quotation!

Quote ID: U9602NLZGO
 PIN: A3V2

Your quotation request had been received. You can find all quotation details and related files through My Orders/Quotations
 We will contact you with a formal quote in a business day. Further evaluation by our scientists is required if 'Quote' notice was found in your quote. You may expect an email or phone call from us in the next few days.

*To meet the biosafety requirements, a biosecurity check will be performed by GenScript.

Recommended service

GenCRISPR Services
 From Gene Screening, Knockout, Knock-in Reagents, to Cell Line Generation
 Learn More
[Online Quotation Form](#)

IVT mRNA Production
 One-Stop Solution for ALL Your mRNA Needs
 Learn More
[Online Quotation Form](#)

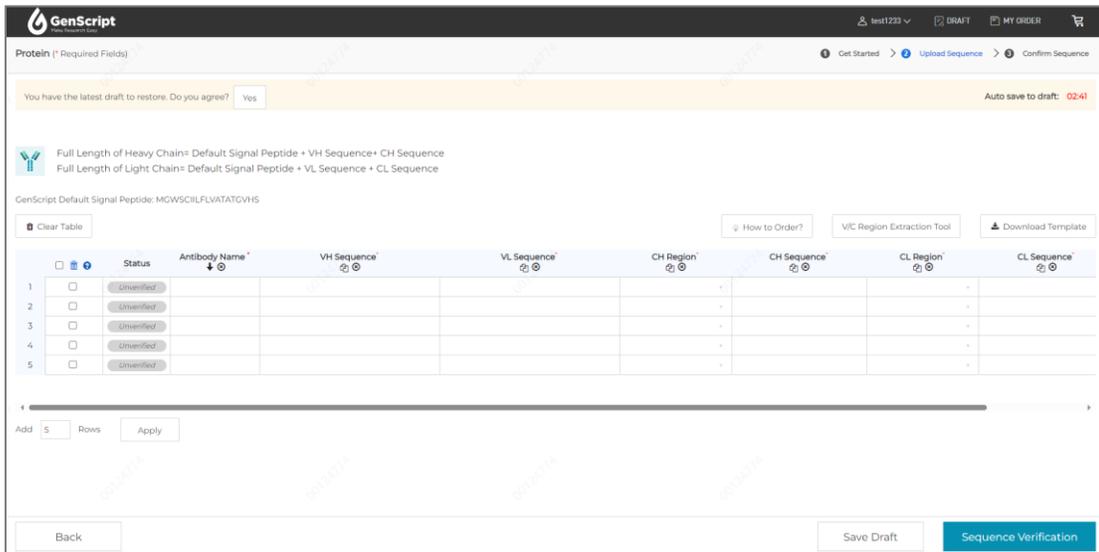
Recombinant Protein Expression Service
 Bacteria, insect, and Mammalian cells available; High-yield and purity products
 Learn More
[Online Quotation Form](#)

[View My Orders/Quotations](#)

9. Please answer the customer survey to help us get better!

4 Guaranteed Yield-Based Package

1. The table currently contains 5 default blank rows. If you'd like to add more sequences, please use the “add row(s)” function at the bottom left side.



GenScript Protein (* Required Fields)

You have the latest draft to restore. Do you agree? Auto save to draft: 02:41

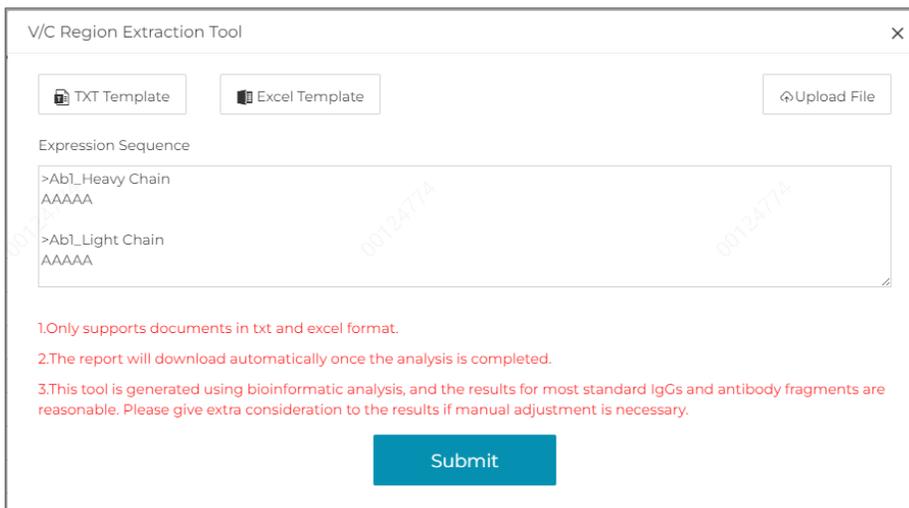
Full Length of Heavy Chain= Default Signal Peptide + VH Sequence+ CH Sequence
 Full Length of Light Chain= Default Signal Peptide + VL Sequence + CL Sequence

GenScript Default Signal Peptide: MWWSRILFLVATATGVHS

	Status	Antibody Name*	VH Sequence	VL Sequence	CH Region	CH Sequence	CL Region	CL Sequence
1	<input type="checkbox"/>	Unverified						
2	<input type="checkbox"/>	Unverified						
3	<input type="checkbox"/>	Unverified						
4	<input type="checkbox"/>	Unverified						
5	<input type="checkbox"/>	Unverified						

Add Rows

2. If the sequences haven't been split in advance, you can use the **V/C Region Extraction Tool** to help extract them. The tool is compatible with txt and excel documents, and is also acceptable of inputting the FASTA format sequences into the text box.



V/C Region Extraction Tool

Expression Sequence

```
>Ab1_Heavy Chain
AAAAA
>Ab1_Light Chain
AAAAA
```

1.Only supports documents in txt and excel format.
 2.The report will download automatically once the analysis is completed.
 3.This tool is generated using bioinformatic analysis, and the results for most standard IgGs and antibody fragments are reasonable. Please give extra consideration to the results if manual adjustment is necessary.

3. **Download the sequence template**, and fill out the antibodies than you'd like to produce. Then simply drag & drop the filled template into the table. If there aren't many sequences, you can fill in the table directly.

GenScript Default Signal Peptide: MGWSCILFLVATATGVHS

Clear Table

	<input type="checkbox"/>	Status	Antibody Name*	VH Sequence*	Linker1*
1	<input type="checkbox"/>	Unverified			
2	<input type="checkbox"/>	Unverified			
3	<input type="checkbox"/>	Unverified			
4	<input type="checkbox"/>	Unverified			
5	<input type="checkbox"/>	Unverified			
6	<input type="checkbox"/>	Unverified			
7	<input type="checkbox"/>	Unverified			
8	<input type="checkbox"/>	Unverified			
9	<input type="checkbox"/>	Unverified			

Add Rows

4. **Click “Sequence Verification”**, the Tool will evaluate the sequences and return with results. The non-standard antibodies will be displayed at the front, allowing you to determine if they require adjustments. If you'd like to proceed with the order, the non-standard antibodies will be removed automatically. For the non-standard antibodies, please use the Volume-Based Package to get a manual quotation.
 - a. All Guaranteed Yield-Based Packages are produced in Singapore, so please start a Volume-Based project after completing the Yield-Based order. Otherwise, your new Volume-Based project will default to Singapore.

Sequence Verification Summary X

Non standard (5 out of 7) Non standard indicates this antibody needs further manual evaluation.

Standard (2 out of 7) Standard indicates this antibody is ready to place the order with standard price and timeline.

NO.	Status	Antibody Name
1	Non standard	aa
3	Non standard	cc
5	Non standard	ee
6	Non standard	ff
7	Non standard	gg
2	Standard	bb

Download the Report

Remove & Download the Non standard Sequences

Step1. Download and review your antibody sequence report.

Step2. Please submit "Non standard" sequences to GenScript Volume-Based Package.

5. Before **adding to cart**, make sure to thoroughly review all antibody sequences and agree with the default service information.

[Download Order Details](#)

NO.	Sequence Analysis	Name	Variable Region	Constant Region	Yield
1	Cloning Soon	aaa3	VL: QLVTQSPASASLCAVWL_show	LC(Human Ig Lambda)CQRKAAPSVTLFPPSSEELQ_show	0.1mg
			VH: EVQLVESGGDLVQPGCSRLR_show	HC(Human IgG1)ASTKCPSPVPLAPSSKSTSG_show	
2	Cloning Soon	aaa4	VL: QLVTQSPASASLCAVWL_show	LC(Human Ig Lambda)CQRKAAPSVTLFPPSSEELQ_show	0.1mg
			VH: EVQLVESGGDLVQPGCSRLR_show	HC(Human IgG1)ASTKCPSPVPLAPSSKSTSG_show	
3	Cloning Soon	aaa5	VL: QLVTQSPASASLCAVWL_show	LC(Human Ig Lambda)CQRKAAPSVTLFPPSSEELQ_show	0.1mg
			VH: EVQLVESGGDLVQPGCSRLR_show	HC(Human IgG1)ASTKCPSPVPLAPSSKSTSG_show	
4	Cloning Soon	aaa8	VL: QLVTQSPASASLCAVWL_show	LC(Human Ig Lambda)CQRKAAPSVTLFPPSSEELQ_show	0.1mg
			VH: EVQLVESGGDLVQPGCSRLR_show	HC(Human IgG1)ASTKCPSPVPLAPSSKSTSG_show	
5	Cloning Soon	aaa9	VL: QLVTQSPASASLCAVWL_show	LC(Human Ig Lambda)CQRKAAPSVTLFPPSSEELQ_show	0.1mg
			VH: EVQLVESGGDLVQPGCSRLR_show	HC(Human IgG1)ASTKCPSPVPLAPSSKSTSG_show	
6	Cloning Soon	aaa10	VL: QLVTQSPASASLCAVWL_show	LC(Human Ig Lambda)CQRKAAPSVTLFPPSSEELQ_show	0.1mg
			VH: EVQLVESGGDLVQPGCSRLR_show	HC(Human IgG1)ASTKCPSPVPLAPSSKSTSG_show	
7	Cloning Soon	aaa11	VL: QLVTQSPASASLCAVWL_show	LC(Human Ig Lambda)CQRKAAPSVTLFPPSSEELQ_show	0.1mg
			VH: EVQLVESGGDLVQPGCSRLR_show	HC(Human IgG1)ASTKCPSPVPLAPSSKSTSG_show	

Service Default Information:

Cell Line: TurboCHO (0.1mg-5mg); CHO-S (10mg-1000mg)

Purification: One-step Purification (Protein A)

QC: CE-SDS (0.1mg-5mg); CE-SDS, Endotoxin, SEC-HPLC (10mg-1000mg)

Endotoxin: Randomly select 5% samples (total sample size ≥ 4) to test endotoxin level, target <1 EU/mg

Aliquot: Default by GenScript

Buffer: PBS pH 7.2

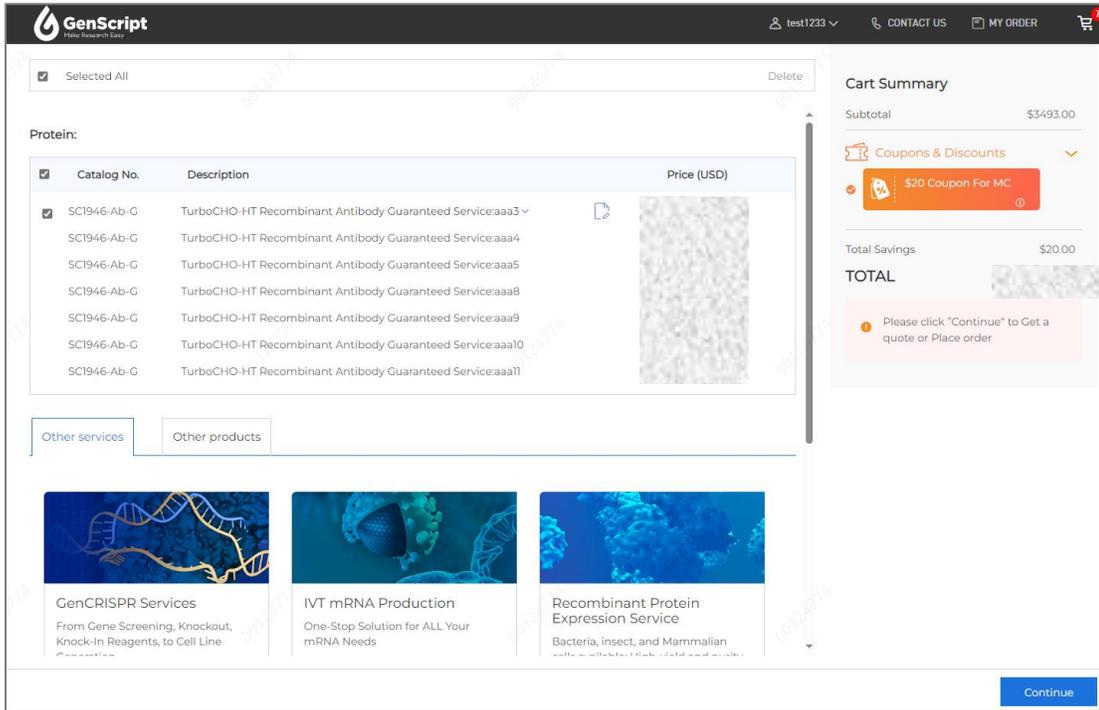
Production Site: Singapore

Back

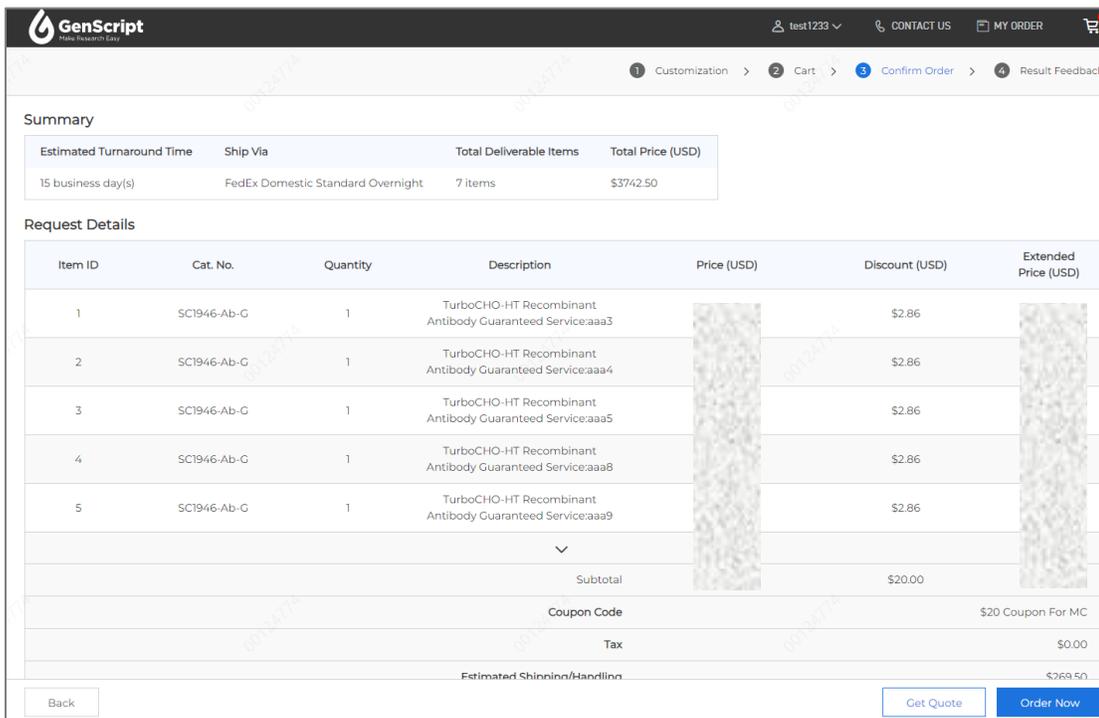
Save Draft

Add To Cart

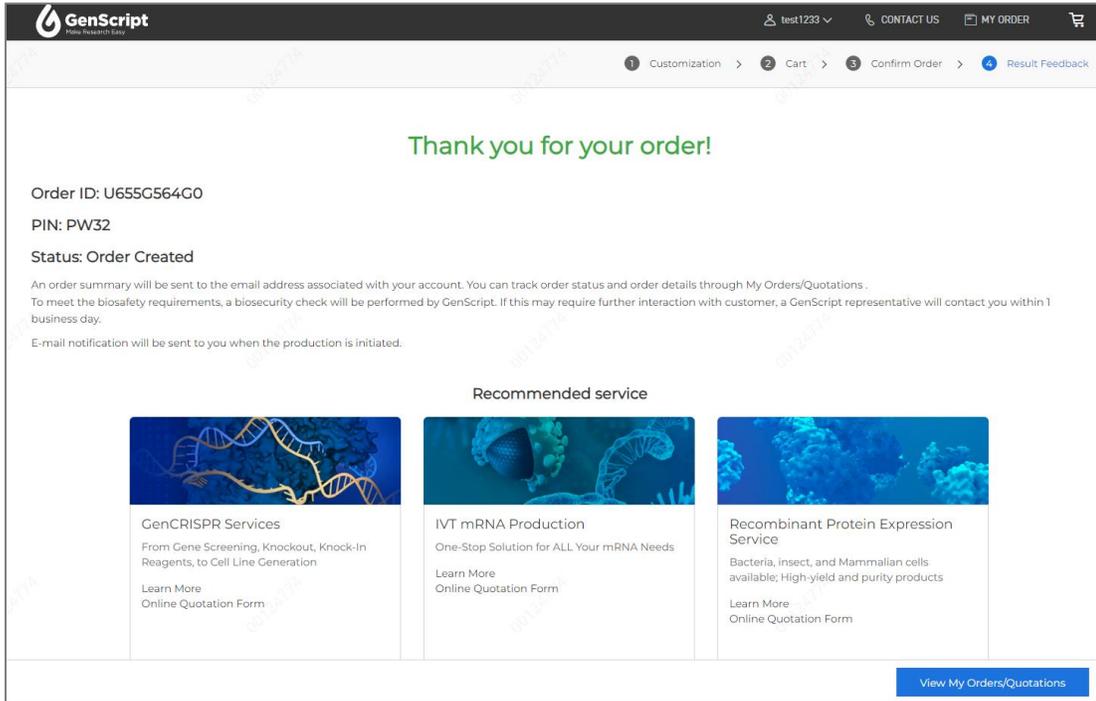
- The cart will show the individual price for each antibody, as well as the total price of the order.



- Review the request details, and **fill in the payment and shipping information.**



8. Click **“Order Now”**, and you’re done!



GenScript

test1233 CONTACT US MY ORDER

1 Customization > 2 Cart > 3 Confirm Order > 4 Result Feedback

Thank you for your order!

Order ID: U655G564G0
PIN: PW32
Status: Order Created

An order summary will be sent to the email address associated with your account. You can track order status and order details through My Orders/Quotations.
To meet the biosafety requirements, a biosecurity check will be performed by GenScript. If this may require further interaction with customer, a GenScript representative will contact you within 1 business day.
E-mail notification will be sent to you when the production is initiated.

Recommended service

 <p>GenCRISPR Services From Gene Screening, Knockout, Knock-In Reagents, to Cell Line Generation Learn More Online Quotation Form</p>	 <p>IVT mRNA Production One-Stop Solution for ALL Your mRNA Needs Learn More Online Quotation Form</p>	 <p>Recombinant Protein Expression Service Bacteria, insect, and Mammalian cells available; High-yield and purity products Learn More Online Quotation Form</p>
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[View My Orders/Quotations](#)

9. Please answer the customer survey to help us get better!