

MolBreeding AutoGBTS Design Tool User Guide

Welcome to MolBreeding Biotechnology's AutoGBTS Panel Design Tool!

This free automated platform helps you efficiently design panels for GBTS using either hybrid capture or multiplex PCR technologies.

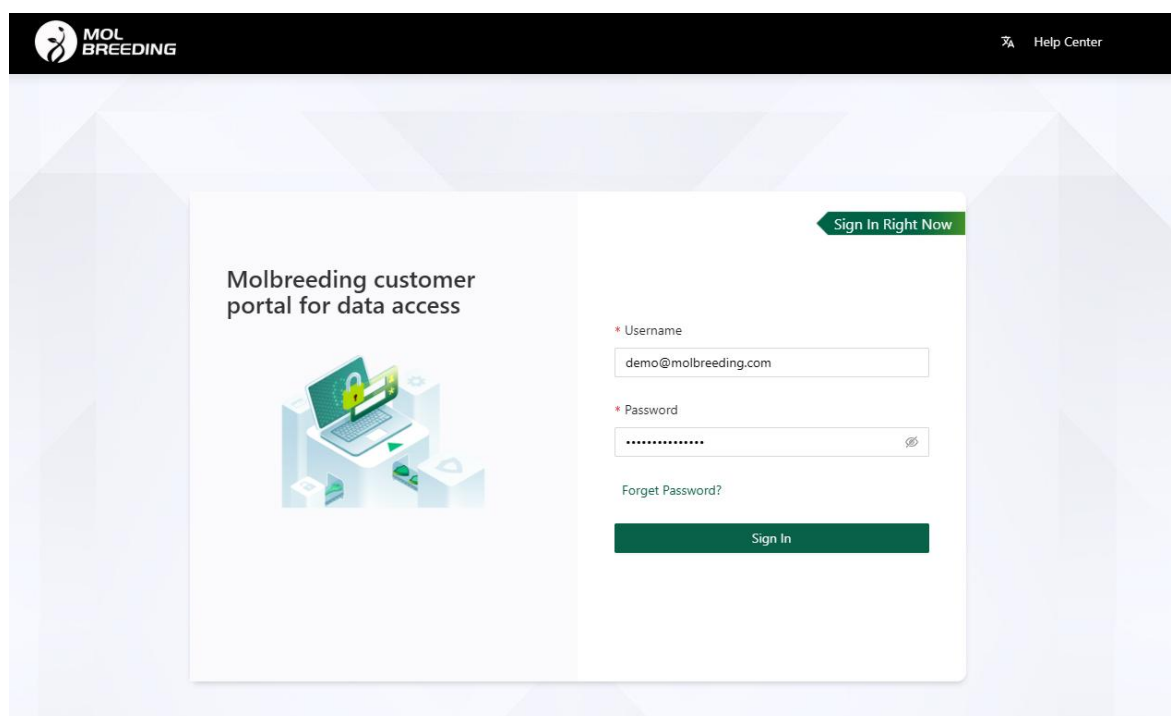
1. Register your private account on [Customer Portal](#)

If you already have an account, please go to **Step 2** directly.

If you do **not** have an account on our customer portal, please contact Customer Support cs@molbreeding.com to register. Include your name, institution, email address, and a brief description of your project needs. Our team will review the request and send your account activation details (typically within **24** hours).

2. Log in to Customer Portal

After you receive the activation email, go to [Sign In - BigDataBreeding](#), and log in with your account with your username and default password provided.

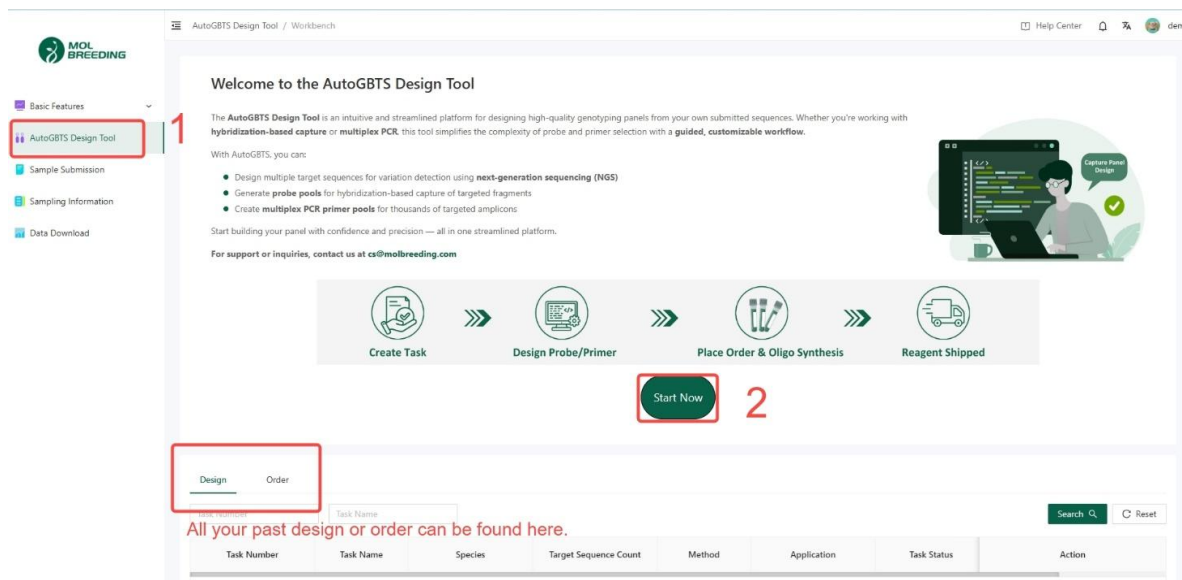


The screenshot shows the MolBreeding customer portal login interface. At the top, there is a black header with the MolBreeding logo on the left and a 'Help Center' link on the right. The main content area has a light blue background with a large white box in the center. Inside this box, on the left, is an illustration of a laptop with a padlock icon, representing data access. To the right of the illustration, the text 'Molbreeding customer portal for data access' is displayed. Further right, there is a login form with two input fields: 'Username' (containing 'demo@molbreeding.com') and 'Password' (masked with dots). Below the password field is a 'Forgot Password?' link. At the bottom of the form is a green 'Sign In' button. In the top right corner of the white box, there is a green button labeled 'Sign In Right Now'.

3. Access the AutoGBTS Design Tool

In the left panel, click “AutoGBTS Design Tool.”

On the page that opens, click “**Start Now**” to open the below Design Request Form.



4. Fill in the Task Details

Complete the form with your project information, including **task name**, **sample species**, and **reference genome**, etc.

- **Method:** Select your preferred design method: “*Hybridization Capture*” or “*Multiplex PCR*”.
- **Application:** Choose whether your targets are for “*Marker Genotyping*” (detecting marker variation) or “*Gene Editing Testing*” (detecting editing sites).

IMPORTANT: Download the input template (picture below) and fill in your target sequence information.

Design Request Form

* Task Name


* Species

Reference Genome

* Method

* Application

* Target Sequence


Click or drag file to this area to upload

Click here to download the input template file

5. Email Confirmation


The design process typically takes **0-5 days** to complete, depending on the number of targets and the size of the reference genome. You will receive an email notification once the design is completed.

← Reply ↗ Forward 😊

6. Review Your Design Result

- Monitor the task status and progress at any time
- Download and review the design report

If everything looks good, click “Place Order” to proceed with oligo synthesis.



- Basic Features
- AutoGBTS Design Tool**
- Sample Submission
- Sampling Information
- Data Download

AutoGBTS Design Tool / Workbench

With AutoGBTS, you can:


- Design multiple target sequences for variation detection using **next-generation sequencing (NGS)**
- Generate **probe pools** for hybridization-based capture of targeted fragments
- Create **multiplex PCR primer pools** for thousands of targeted amplicons

Start building your panel with confidence and precision — all in one streamlined platform.

For support or inquiries, contact us at cs@molbreeding.com

Help Center

demo



Create Task

Design Probe/Primer

Place Order & Oligo Synthesis

Reagent Shipped

Start Now

Design

Order

Task Number

Task Name

Search

Reset

Task Number	Task Name	Species	Target Sequence Count	Method	Action
TTMBD202510150001	demo test	Cabbage(Brassica rapa p...	3	GenoBaits	Report Place Order Delete

Total 1 10 / page

● Illustration of Probe Design Report:

Probe Design Report

1. Base Information

Task Number	TTMBD202509220001	Email	demo@molbreeding.com
Task Name	demo test	Species	Cabbage(Brassica rapa pekinensis)
Submission Time	2025-09-01 08:18:39	Company/Institute	/
Completion Time	2025-09-02 01:19:48	Reference Genome	https://www.ncbi.nlm.nih.gov/datasets/genome/

2. Target Probe Design Summary

Design Summary of Loci

Variant Type	Total Targets	Targets with Successful Design	Probes Count	Design Rate(%)
SNP	3	3	3	100.0
Total	3	3	3	100.0

3. Target Probe Design Detail

Item	Target ID	Variant Type	Target Length(bp)	Probes Count	Coverage per Target(%)
1	Example ID 1	SNP	1	1	100.0
2	Example ID 2	SNP	1	1	100.0
3	Example ID 3	SNP	1	1	100.0

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7. Order Oligo Synthesis

After you place the order, our project manager will prepare a **quotation** for your review.

The reagents are typically **delivered within 7–14 days** after payment confirmation.

Tip: Reagent orders are charged, but the design process is completely free. Contact support for quote consultations before submitting.

For any other questions, please contact your project manager or cs@molbreeding.com.