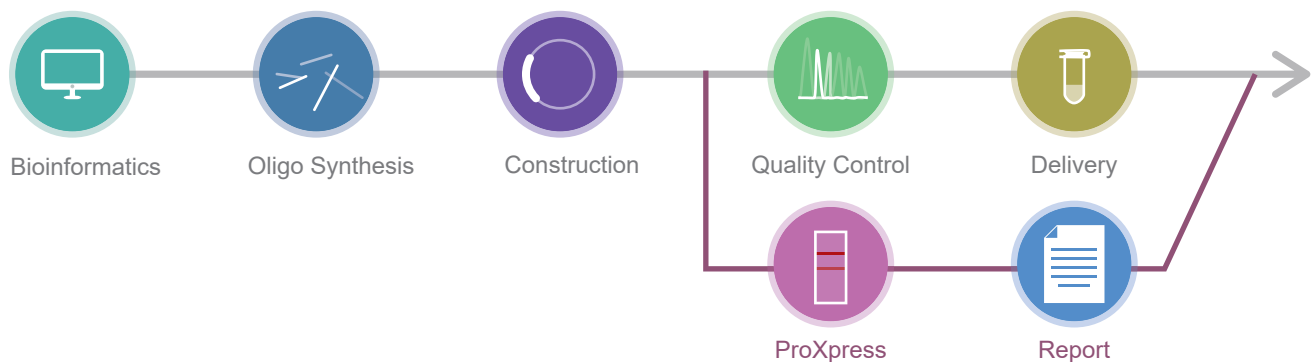


'One Synthesis - Two Results' with Syno GS + ProXpress

The field of gene synthesis has seen remarkable growth and innovation in recent years, thanks to the rapid advancement of synthetic biology technology. Experts at Synbio Technologies have taken this a step further by significantly upgrading the Syno GS gene synthesis platform. This upgrade not only includes improvements in DNA synthesis and assembly technologies, but also introduces the new ProXpress series. The introduction of ProXpress has revolutionized the way gene synthesis is delivered, moving away from the previous single delivery method. Now, it offers more diverse delivery pathways and achieves the concept of 'One synthesis — Two Results'. This development represents a significant leap towards intelligent, precise, and rapid advancements in the field.

Service Process



A New Addition to Gene Synthesis Services

ProXpress, our latest product, is a rapid detection test kit that significantly expands our gene synthesis services. The series boasts a wide range of options including His-Tag, His-Tag PLUS, GST-Tag, Flag-Tag, Flag-His-Tag, as well as human and mouse IgG (Fc fragment), among others. With ProXpress, you get more choices for efficient and precise gene synthesis.

Discover the Benefits of One-Stop Gene Synthesis:

Our one-stop gene synthesis service goes beyond just synthesizing genes. It comes with a suite of benefits designed to streamline your research and development process:

- **Free Codon Optimization:** We offer complimentary codon optimization to help enhance the expression level of your target protein.
- **Biointelligent Analysis System:** Our sophisticated system analyzes your gene sequence for potential issues and suggests optimal solutions.
- **Advanced DNA Synthesis and Assembly Technologies:** We utilize multiple cutting-edge technologies to synthesize and assemble DNA, ensuring high-quality results.
- **100% Accurate Delivery Sequence:** With our stringent quality control measures, we guarantee that the delivered sequence is 100% accurate.
- **Rapid and Accurate Protein Expression Verification:** We swiftly verify the expression of existing proteins with accuracy, saving you valuable time in your research process.

With these advantages, our one-stop gene synthesis service is poised to accelerate your research and development activities.

Service Specifications

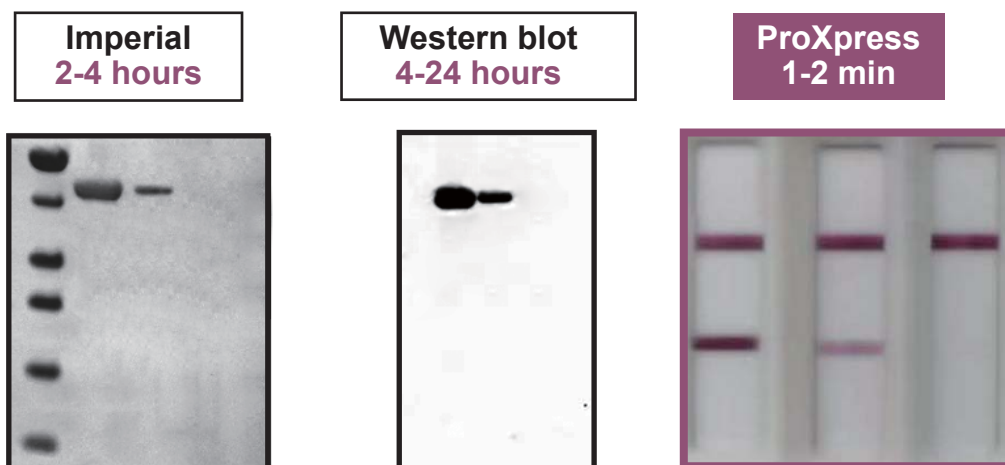
Services Name	Gene Length	Turnaround Time (business days)	Service advantages	Deliverables
Standard gene synthesis	≤8 kb	4-10	Standard services, sequence assurance	<ul style="list-style-type: none">• 2~5 µg lyophilized plasmid DNA• Sequencing chromatogram• Certificate of analysis (COA)• ProXpress Validation Report
Complex gene synthesis	≤14 kb	5-10	CI system solves complex sequences and expresses efficiently	
Metabolic Pathways and Genomic Synthesis	≤10 kb	10-15	Ultra long DNA fragment splicing	
One-stop gene synthesis	≤6 kb	15-20	One stop upgrade service, ProXpress verification	

Constructing and Testing Target Genes with Syno GS and ProXpress

In this example, we used the Syno GS gene synthesis platform to construct the customer's target gene into their preferred expression vector, resulting in the desired plasmid.

We then transfected the target gene plasmid, which carries the GST-Tag, into BL21 (DE3) cells. Following this, we utilized three different methods for protein detection: WB, ProXpress, and a third method. The results showed that all three methods verified the protein's expression in the cells. However, ProXpress stood out due to its superior sensitivity and speed. Additionally, it doesn't require any special equipment and offers a user-friendly operation process.

In conclusion, ProXpress offers a quick, sensitive, and easy-to-use solution for protein detection, making it an excellent choice for gene synthesis and protein expression studies.



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