

PCR Cloning & Subcloning

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PCR cloning and subcloning are two main approaches to amplifying DNA sequences. Synbio Technologies is confident in our ability to clone any target gene into any requested site of any vector system on the basis of our, patent pending, Syno®Platform. The combination of the Syno®2.0 tool and the Clone 3.1 technology allows us to insert the requested genetic sequence into any customer specific vector for cloning.

During PCR cloning Synbio Technologies offers sequence optimizations before introducing target gene materials into selected vectors. This sequence optimization allows us to verify the sequence in one hundred percent accurate to the customer's request before amplification. According to the model clone and sequence from customers, we will design the necessary primers, clone the PCR product of interest into new vector, and finally verify it by Sanger sequencing. This allows us to tailor make a system to supply our customers with the exact specifications necessary to fit their particular research interest.

Subcloning, another popular process of DNA amplification, utilizes the transformation of the template sequences from one vector to another vector with the same restriction enzyme sites. Synbio Technologies is ready to provide our customers with high quality output and cost effective and efficiency benefits through use of subcloning.

Synbio Technologies offers a wide spectrum of genetic technologies. Combining our proprietary Syno®2.0 and Syno®3.0 platform offers a one-stop service ranging from gene synthesis to cloning constructs of interest. Our experienced and exceptional solutions can built any target gene fragments at any site of any require vectors. There is no project out of Synbio Technologies' ability.

PCR Cloning & Subcloning Advantages

- **100% Sequence Accuracy** : We will quickly and accurately synthesize your requested sequence. The generated sequence will then be verified by Sanger sequencing to guarantee 100% sequence accuracy.
- **Customizable Subcloning** : Guarantee successful clone at any site in any

Contact us

Synbio Technologies

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vector system, both commercial and custom, of interest with special amplified primer design.

- **Professional Technical Team** : Synbio Technologies' professional technical support offers you proactive communications on your project processing status.

PCR Cloning & Subcloning Services Specifications

Service Type	fragment length	Turnaround Time (Business Day)	Price
PCR Cloning & Subcloning	<1kb 1-2kb	10-13	Quote
	2-3kb	15-18	Quote
	>3kb	Inquiry	Quote

*Note: The turnaround time applies to non-complex sequences. Please contact service@synbio-tech.com to quote for the complex sequences.

- DNA sequence:

If the sequence has not been verified primarily, Synbio Technologies will provide sequence validation through Sanger sequencing to optimize the resulting output. (Additional fees will be charged.)

- Vector:

1. Commercial vectors are preferred.

2. For specific vectors constructed by the customer, full length sequence is needed. If there is no sequence information, we will conduct sequence validation through use of Sanger Sequence as necessary. (Additional fees will be charged.)

- If rare restriction endonucleases or special molecular biological reagents are required to use in the experiment, customers may provide these reagents.

1. Synbio Technologies can purchase them for you. (Additional fees will be charged.)

2. All purchased reagents will be returned to customers after the delivery.

PCR Cloning & Subcloning Delivery Form

Synbio Technologies' standard package including:

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- ❖ Lyophilized plasmid DNA (4µg)
- ❖ Sequencing chromatogram
- ❖ Certificate of analysis (COA)

PCR Cloning & Subcloning Related services

- ❖ **Gene synthesis:** De novo synthesize the error-free gene sequences on the basis of our proprietary Syno®platform.
- ❖ **Plasmid DNA preparation:** High efficiency plasmid extraction can result in research-level or preclinical level plasmid prep to meet multiple demands.
- ❖ **Vector construction:** Based on our Syno®2.0 and Syno®3.0 synthesis platforms, Synbio Technologies will deliver any synthetic vector you request with high accuracy and at an economical price.

PCR Cloning & Subcloning Frequently Asked Questions

- ❖ Synbio Technologies' PCR cloning and subclonig.
- ❖ Four steps of subcloning technology protocol.

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