



# Assembly of multi-part DNA constructs. Let us do the DNA assembly for you!

Your focus is on the product of a multi-enzyme cascade or a biosynthesis pathway in *E. coli* or yeasts but you are lost in assembling the expression construct?

## BACKGROUND

Standard restriction cloning is the method of choice to construct simple recombinant expression vectors. However, it falls short when it comes to the combinatorial assembly of multi-enzyme cascades or entire biosynthesis pathways. Recently, a number of cutting-edge approaches have been developed to deliver customized DNA constructs for metabolic engineering, synthetic biology and biocatalysis.

## SERVICE

### **Design of DNA constructs:**

We find the optimal expression strategy for your favorite enzyme cascade or biosynthesis pathway.

### **Assembly of DNA constructs:**

We apply the optimal approach for fast and straight-forward assembly of your preferred construct. Assembled constructs are free to use without limitation as acib holds a license for Gibson cloning.

### **Strain construction:**

We implement your favorite expression construct in the host.

## CONCLUSION

We support you in the cost-effective and timely realization of your expression constructs so that you can focus on the product.

## EXPERTS

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## KEYWORDS

- Gibson cloning
- Golden Gate cloning
- Homologous recombination
- Overlap-extension PCR

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