



Full PlasmidSeq - Quantum Leap in Plasmid Sequencing

Easy Handling

Neither primers nor prior sequence information is needed! All you need to do is submit minimum 300 ng of your plasmid preparation via Microsynth's drop box system that includes **free and fast shipping**.

Accurate and Informative

Each plasmid (2.5 kb – 50 kb) is fully sequenced by long reads to high consensus accuracy. Following this, you will receive the **completely reconstructed and annotated circular plasmid sequence**.

Fast and Affordable

Results are delivered within 1 - 3 working days following sample receipt. And you can decode the complete sequence for just a fraction of the price of previous sequencing technologies.

Overview of Full PlasmidSeq

Microsynth's full plasmid sequencing service is based on long-read sequencing technology. This reconstructs the sequence of your plasmid

using a sophisticated bioinformatic pipeline that has been developed by Microsynth and which recreates the closed-circle plasmid sequence,

including annotation, from the raw sequencing reads.

Outstanding Features & Benefits

The new service is **fast, cost-effective, complete, and hypothesis-free**. Simply provide us with a clean DNA preparation and you'll receive the final **annotated contig** of your plasmid including a **wealth of supporting information** enabling you to evaluate

the quality of the results and identify potential problematic regions. Unlike Sanger sequencing, **neither primers nor prior sequence information** is needed. And compared to Illumina sequencing, costs and **turnover times are considerably reduced**. Finally, the

long sequencing raw reads, which are typically the same size as the plasmid, **dramatically increase the accuracy of the assembly**, even in the presence of repetitive elements. The service is also available for the sequencing of clonal linear DNA (600 bp to 50 kb).

ONT vs. Sanger Plasmid Sequencing

Research Question or Application	ONT	Sanger
Fast and cheap verification of an entire vector sequence	+++	+
Economical check of plasmid banks in your lab	+++	+
Sequencing of GC-rich and repetitive regions without gaps	++	++
Verifying number of repeated inserts	++	-
Verifying plasmid sequence cassettes, inserts, mutations	+	+++
GxP batch release of plasmid production vectors	+	+++

Incredibly Straightforward

1. Just submit 300 ng of a high-quality plasmid DNA preparation.
2. Put your samples in one of our sample drop boxes.
3. Sit back, your sequencing results are delivered in 1 to 3 working days following sample receipt.

Products

- 3260 Full PlasmidSeq/Long PCRSeq Labels (in batches of 10 prepaid labels)
- 3261 Full PlasmidSeq/Long PCRSeq Tube Sticker (non-prepaid sequencing in tubes)
- 3262 Full PlasmidSeq/Long PCRSeq Plate Sticker (non-prepaid sequencing in a 96-well plate*)

* Flat price for up to 24 samples. For more than 24 samples, a price per plasmid is applied.

Never Tried?

Write an email to sanger.support@microsynth.ch and ask for **trial set**.

How to Order?

Enter our webshop via www.microsynth.com

Click on **"Order Labels"** in the green „Analysis Services“ area

Click on **"Full PlasmidSeq/Long PCRSeq"** and follow the further instructions

Need More Information?

Call us at +41 71 726 10 04 or +49 551 37 000 15/17

E-mail us at sanger.support@microsynth.ch or info@microsynth.seqlab.de

“The sequencing performance was not only good, but great. I used to sequence plasmids myself with ONT's MinION and know the problems. We had a plasmid analyzed at Microsynth for a test and it worked, even though we couldn't read it with the MinION before. For several very complex plasmids we also got error-free results, although we could not quantify the DNA of these samples”

Prof. Dr. Benjamin Lamp, Ph.D.

Justus-Liebig-Universität