

Sanger Sequencing from Eurofins Genomics

Eurofins Genomics, formally known as Operon, is partnering with the UCONN Center for Genome Innovation to provide Sanger sequencing services to all researchers. Eurofins Genomics is an international leader in DNA sequencing and oligonucleotides, and is known for quick turn around times and excellent quality in both areas. The CGI and Eurofins teams are working together to ensure you have a great experience during and after this transition. Explore a few of Eurofins Genomics exclusive products and services below:

- **Overnight sequencing** is a standard service on most tube orders that provides rapid results the next day, even on Saturdays.
 - <https://www.eurofinsgenomics.com/en/products/dna-sequencing/overnight-sequencing-results.aspx>
- **SimpleSeq Kits** include 96 prepaid sequencing reactions and 96 barcoded tubes for easy submission. This widely popular product provides researchers everything needed to prepare, manage, and submit their sequencing samples when needed.
 - <https://www.eurofinsgenomics.com/en/products/dna-sequencing/simpleseq%E2%84%A2-kits.aspx>
- **Prepaid Plates** are a cost effective option for high volume sequencing users that also need flexibility when planning their experiments.
 - <https://www.eurofinsgenomics.com/en/products/dna-sequencing/seqplate.aspx>
- **Express Oligos** are the fastest oligonucleotides in the US and standard for most tube orders. Enjoy next day delivery at no additional cost if ordered by 5pm
 - <https://www.eurofinsgenomics.com/en/products/dnarna-synthesis/express-oligos.aspx>
- **EXTREmer long oligos** are single-stranded, high-fidelity DNA up to 200 mer, perfect for tough applications.
 - <https://www.eurofinsgenomics.com/en/products/dnarna-synthesis/extremers.aspx>

Your Eurofins Contacts:

The CGI is happy to work directly with your lab to help establish customer accounts, clarify Eurofins sample submission guidelines or answer any general questions you may have.

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How to Place an Order:

1. Visit the [UCONN custom portal](#)
 - a. <https://b2b.eurofinngenomics.com/custom/uconn>
2. Create an account for your lab (you only need to do this once!)
3. **Before you drop off your samples**, submit your order online. Be sure to use the barcode stickers available in the CGI to label your tubes.
 - a. Barcode sticker numbers will be entered into the submission portal along with other information about your samples/primers. If you do not use barcode stickers, you must CLEARLY LABEL your tubes! Unclear markings will delay sample processing.
4. Print out order confirmation and enclose with samples in zip top bag or similar.
 - a. Do not leave your samples in tube racks and be sure to check that all tubes are completely closed!
 - b. Use the sample submission bags provided by Eurofins (available in the CGI).
5. Drop off samples in the Eurofins Dropbox (Engineering and Science Building, outside of 3rd floor elevators) by 3:30pm.
 - a. UPS daily pickups are scheduled for 4pm, Monday – Friday. NOTE: Pickup times can occur anytime between 3:45pm and 4:15pm.

Detailed explanation of select options (from Price Quote – Sequencing Category Section):

Tube sequencing:

For more information on tube submission specifications as well as data deliverables visit:

<https://www.eurofinngenomics.com/en/products/dna-sequencing/tube-sequencing.aspx>

- **Tube Reaction:** Sticker Barcoded tube sequencing (\$4 per reaction)
 - Customer submits samples in their own tubes using free barcode stickers (available in the CGI) which are registered to the customer's account so samples are able to be tracked from start to finish
 - Customers can submit samples without barcode stickers however turnaround time can be slower and customer is at higher risk for sample mix-up in the lab.
 - Tube reactions are reaction submissions where template is provided separate from primers or can be premixed. Customer has the option to:
 - Provide primers in tubes along with template submission (use primer barcode stickers) or premix primer with template
 - Use universal primers from Eurofins standard primer list (<https://www.eurofinngenomics.com/en/products/dna-sequencing/universal-primers-list.aspx>)
 - Synthesize and store custom primer(s) using Eurofins primer synthesis and storage option (additional fee)
- **Power Read Upgrade:** (per reaction cost + \$2.50 per reaction)
 - For use with known difficult to sequence templates, GC-rich templates or repetitive sequences
- **SimpleSeq Read, 96 Reactions:** (\$384 total; \$4.00 per reaction)
 - Customer purchases 96 reactions up front to use as needed. Customer receives free barcoded tubes to submit their samples in, in batches as needed.
 - Customer has flexibility with primer submission (universal free primers, send primer separately, premix or have primer synthesized by Eurofins for a fee).
- **SimpleSeq Webless (Premix Only):** (\$336 or \$3.50 per reaction)
 - Customer purchases 96 reactions up front to use as needed. Customer receives barcoded tubes to submit their samples in, in batches as needed.
 - Customer must premix primer and template in these tube submissions

Plate Sequencing Service:

For more information on sample submission and plate specifications (including plate sealing recommendations), as well as data deliverables visit:

<https://www.eurofinngenomics.com/en/products/dna-sequencing/seqplate.aspx>

- ❖ **Standard Plates**
- ❖ **PrePaid Plates**
- ❖ **ShortSeq Plates**
- ❖ **Ready2Load**

- **Plate Reaction (Standard Plates) 96-well (1-9 plates):** (\$192 per 96-well plate; \$2 per reaction):
 - Submit 24 or more premix reactions in plate format. Up to 192 reactions get next day results
 - Sample plates barcoded with stickers prior to submission by customer. Customer must supply full-skirted 96-well plate and 8-cap strips for sealing.
- **PrePaid Plate DNA:** (\$216 per 96-well plate; \$2.25 per reaction)
 - Use this kit for submitting purified DNA samples, e.g., prepared plasmids, purified PCR products, etc.
 - The components and services accompanying this kit include 96 sequencing reactions (PCR clean-up or DNA preparation is not included), (1) barcode labeled blue 96-well plate, (12) 8-cap strips for sealing, shipping box and pre-paid, pre-addressed, shipping envelope
- **ShortSeq Plate:** (\$188 per 96-well plate; \$1.96 per reaction):
 - Faster, shorter reads for projects that do not require 750+ bp reads
 - Minimum submission of 24 samples
 - Expected lengths of 500-700bp although typical read lengths for this submission type often average 700bp+
 - Sample plates barcoded with stickers prior to submission by customer. Customer must supply full-skirted 96-well plate and 8-cap strips for sealing.
 - **Must premix template and primer**
- **Ready2Load Plate:** (\$47.50 per 96-well plate; \$0.50/sample)
 - Customer performs big dye reaction and precipitation.
 - Samples are preferred to be shipped as dried pellets. Wet sample submissions need to be noted.
 - Samples submitted as Ready2Load plates are run with ShortSeq plate configuration (i.e. 500-700bp expected lengths, although typical read lengths for this submission type often average 700bp+)
 - Sample plates barcoded with stickers prior to submission by customer. Customer must supply full-skirted 96-well plate and 8-cap strips for sealing.

Additional Services:

- ❖ Plasmid prep in tube/plate format
- ❖ PCR purification in tube/plate format
- ❖ Primer synthesis/storage
- ❖ Gene synthesis