

LEXOGEN

Enabling complete transcriptome sequencing

Complete RNA-Seq Service for Gene Expression Studies

- ✔ Automated QuantSeq 3' mRNA-Seq Library Prep
- ✔ Sequencing on in-house Illumina platform
- ✔ Data analysis and reporting
- ✔ Down to 100 pg of total RNA input
- ✔ For RNA of high and low quality, including FFPE
- ✔ All-inclusive service for EUR 248/sample*
- ✔ **NEW!** CORALL Total RNA-Seq, Small RNA-Seq Library Prep and QuantSeq Library Prep on SLAMseq RNA also available

* Certain conditions apply. Visit the services page at www.lexogen.com for further information. Illumina is a registered trademark of Illumina, Inc.



Sample

The QuantSeq Service bundle requires purified total RNA samples as input and is available for sample input as low as 100 pg. QuantSeq is suitable for (reproducible) library generation from high, and low quality RNA, including FFPE samples. For a variety of sample types Lexogen also offers RNA isolation using the SPLIT RNA Extraction Kit.

Library Preparation & Automation

The QuantSeq 3' mRNA-Seq Library Prep automation on the best-in-class liquid handler provides an opportunity of simultaneous preparation of large sample numbers with superb workflow consistency.

Sequencing

High multiplexing capabilities are a native feature of QuantSeq and form the basis for this economically competitive solution. Sequencing of libraries to an average depth of just a few million reads is sufficient to obtain reliable gene expression quantification. Sequencing is routinely performed on an Illumina NextSeq 500.

Data Analysis

A clear-cut bioinformatics analysis solution rounds off the workflow. Data analysis profits from the focused sequencing of stretches close to mRNA 3' ends, facilitating data integration procedures for gene expression quantification. An automated data analysis pipeline provides streamlined analysis throughput.

Report

Data analysis results and raw sequencing data are hosted on our sftp server for convenient download upon completion of the project. In addition, a standardized report for individual samples, including differential gene expression quantification is provided for download. Please contact us for an example report.

Services - QuantSeq 3' mRNA-Seq Workflow

Lexogen provides a fully integrated Service workflow for generation of QuantSeq 3' mRNA-Seq libraries, multiplexed sequencing, and data analysis.

QuantSeq uses total RNA as input and generates libraries close to the 3' end of polyadenylated RNA. Rapid turnaround is facilitated by the quick library preparation procedure, leveraging liquid handling devices for automated processing of mid-to-large scale sample numbers.

Pricing

QuantSeq Services are flexible in project-size, available for large and small projects at an average price of EUR 248 per sample*.

The Service bundle consists of QuantSeq 3' mRNA-Seq (FWD) library preparation, balanced lane-mixing, NextSeq SR75 High Output sequencing (Illumina specified at 400 M reads per run), all required quality controls, and data analysis. As a recently added feature, we now also routinely use RNA spike-in controls (ERCCs and SIRVs) for improved process control. Lexogen's Globin Block Modules for QuantSeq (human/pig) may be added for processing blood-derived RNA samples as well as the UMI Module.

Data analysis includes demultiplexing, read quality control, trimming and filtering procedures, mapping, read counting, and differential gene expression (DGE). All results are covered in the final report, with further analyses available on request.

Pricing depends on the number of samples to be processed, the desired number of reads per sample, and the sequencing mode. Please contact us for a quote.

For more information about all service options (incl. Small RNA-Seq, CORALL Total RNA-Seq, QuantSeq on SLAMseq RNA), contact us at services@lexogen.com.

* Certain conditions apply. Pricing depends on the number of samples, sequencing depth, and sequencing mode. Visit the services page at www.lexogen.com for further information. Contact us to receive a quote for your specific project at services@lexogen.com.



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Interested? Contact us!


**We will be happy to provide you with
information and a dedicated quote
regarding your project!**

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