



We are LEXOGEN - Expert Solutions for RNA-Seq

Empowering our customers with innovative RNA analysis solutions and NGS services.

Lexogen develops innovative technologies such as 3' mRNA-Seq, which have been widely adopted by thousands of scientists worldwide. In addition, we offer end-to-end workflows for RNA analysis and NGS sequencing. Lexogen provides fully customizable NGS Services, which include everything from experimental design to bioinformatics.



PRODUCTS

We offer end-to-end innovative solutions for RNA analysis and NGS sequencing.

- ✓ **No hidden costs!** Streamlined, all-in-one RNA-Seq library preparation kits - all reagents and indices included!
- ✓ **On us! Complementary data analysis on [Kangooroo.com](https://kangooroo.com) for flagship RNA-Seq products:** Analyze data from Quant-Seq expression profiling, CORALL whole transcriptome RNA-Seq, and LUTHOR single-cell expression kits. Data analysis for miRVEL Small RNA-Seq is available for a fee.



SERVICES

Unlock limitless possibilities with our fully customizable NGS services. Select from a wide range of RNA-Seq options, DNA-Seq, or bioinformatics data analysis.

- ✓ **NGS services from sample to data analysis** or fully customizable service packages tailored to your project needs.
- ✓ **Expert consultation and experimental design support** with a proven track record in drug discovery projects.

PRODUCT OVERVIEW

Sampling	RNA Preparation	NGS Library Prep	NGS Data Analysis
SLAMseq for High-Throughput Kinetic RNA Sequencing » Explorer Modules » Kinetics Modules » Bundles with QuantSeq V2 • Analyze RNA synthesis and degradation (RNA kinetics) in a time-resolved manner. • Combined with QuantSeq to gain novel insights into the control of gene expression. RNA/DNA Defender Solution • Stabilize RNA and DNA in fresh tissue and cell culture samples. • Postpone RNA or DNA extraction to when more convenient. • Various storage options: one day at 37 °C, one week at room temperature, one month at 4 °C, or up to one year at -20 °C.	TraPR Small RNA Isolation • Isolation of pure, functional sRNA. • Fast and easy column-based purification. • Species independent. SPLIT RNA Extraction • Extraction of high-quality, high-purity RNA from a wide range of biological samples, including cell culture, animal and plant tissue, and fluid samples. SPLIT One-Step FFPE RNA Extraction • Quick and convenient RNA extraction from challenging FFPE samples, validated workflow with Lexogen FFPE library preparation kits. RiboCop rRNA Depletion • rRNA depletion (>99 %) at lowest cost, without off-target effects. • Suitable for demanding downstream applications (e.g., NGS). • Available for human, mouse, rat, bacteria, yeast, plants, and fish. • Simultaneous rRNA and globin mRNA depletion for human, mouse, rat. Poly(A) RNA Selection • Highly specific poly(A) RNA enrichment. • Rapid turnaround, automation-friendly, easy scaling.	Expression Profiling » QuantSeq 3' mRNA-Seq V2 » QuantSeq FFPE 3' mRNA-Seq » QuantSeq 3' mRNA-Seq REV » QuantSeq-Pool Sample-Barcoded 3' mRNA-Seq » QuantSeq-Flex Targeted RNA-Seq • Cost-efficient gene expression profiling - including low-input, low-quality, and blood samples. • Optimized workflow for challenging FFPE samples. • Unique Molecular Identifiers (UMIs). • Up to 384 Unique Dual Indices (UDI). • Easily scalable to 36,864 samples for large screening projects. » LUTHOR HD 3' mRNA-Seq » LUTHOR HD Pool 3' mRNA-Seq • True single-cell expression profiling. • Extraction-free drug screening. Whole Transcriptome » CORALL RNA-Seq V2 » CORALL mRNA-Seq V2 » CORALL Total RNA-Seq V2 » CORALL FFPE RNA-Seq » CORALL RNA-Seq for Blood • Fragmentation-free library size adjustment with uniform transcript coverage. • UMIs and UDIs included. • Fast (4.5 h) and easy protocol. Small RNA-Seq » miRVEL Discovery Small RNA-Seq • User-friendly workflow, high level of multiplexing with UDIs and UMIs. • Optimized for biofluids and low RNA content samples such as plasma, serum, and urine. » miRVEL Profiling Small RNA-Seq • Rapid workflow, minimized purification steps, multiplexing with UDIs. • Cost-efficient solution for sRNA expression profiling.	Demultiplexing and Index Error Correction Tool SLAMseq Data Analysis • Automated, in-house data analysis pipeline SLAMdunk for SLAMseq analysis. QuantSeq Data Analysis • User-friendly, streamlined data analysis on Lexogen's plug-and-play data analysis platform Kangoroo.com. LUTHOR Data Analysis • User-friendly, streamlined data analysis on Lexogen's plug-and-play data analysis platform Kangoroo.com. CORALL Data Analysis • Uses Mix² for accurate transcript abundance estimation. • User-friendly, streamlined data analysis on Lexogen's plug-and-play data analysis platform Kangoroo.com. Mix² RNA-Seq Data Analysis Software • Accurate estimation of isoform concentration with best quantity, quality, and accuracy measures. • Fast and small memory footprint.
	cDNA Preparation		
	TeloPrime Full-Length cDNA Amplification • Best 5' cap specificity for full-length cDNA generation. • Preservation of short and long RNA molecules, suitable for long-read sequencing (e.g. PacBio™ and Oxford Nanopore™).		
	NGS Controls		
	Spike-In RNA Controls » SIRV-Set 1 (Iso Mix E0, E1, E2) » SIRV-Set 2 (Iso Mix E0) » SIRV-Set 3 (Iso Mix E0 / ERCC) » SIRV-Set 4 (Iso Mix E0 / ERCC / long SIRVs) • Comprehensive design - isoform and abundance complexity. • Validate, monitor, and compare RNA-Seq experiments and pipelines.		SIRV Suite Spike-In Analysis Software • Design and evaluate your SIRV experiment, derive RNA-Seq quality measures and compare experiments.
Lexogen NGS Services			

APPLICATIONS

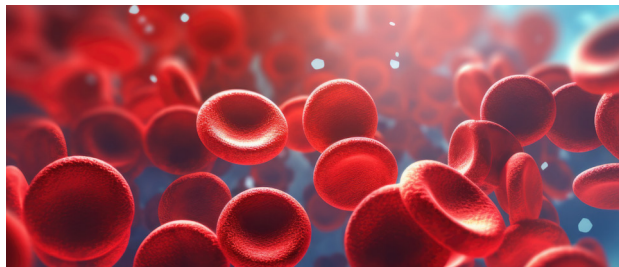
Lexogen provides **comprehensive, end-to-end solutions** for the most innovative frontiers of RNA-Seq. Leveraging decades of RNA expertise, we have revolutionized next generation sequencing by **transforming complex sample inputs**, such as FFPE tissue, liquid biopsies, plants, crude cell lysates, **into meaningful biological insights**. Lexogen offers a selection of robust workflows across our four core application pillars:



ONCOLOGY

Precision RNA-Seq from biobanked FFPE samples.

- ✓ Stringent service workflows and validated solutions from extraction to data analysis, optimized for FFPE material.
- ✓ Ideal for cancer studies on patient-derived tumors for characterization, diagnosis, prognosis, and treatment efficacy testing.
- ✓ Established workflows used in **early drug discovery**, e.g., for target identification and validation.
- ✓ Neoantigen prediction studies for **personalized cancer immunotherapies**.



BIOMARKER DISCOVERY

High-sensitivity detection in liquid biopsies and blood.

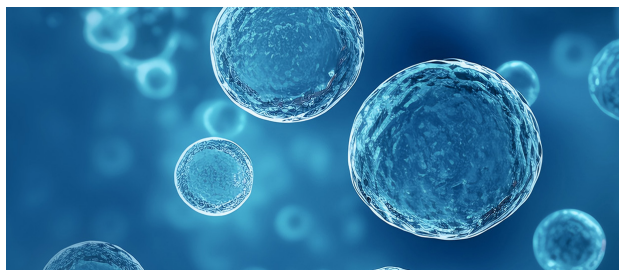
- ✓ Identification of gene signatures or isoforms in whole blood samples, also from blood collection tubes.
- ✓ Extraction-free gene expression for high-throughput screens.
- ✓ Discovery of small RNA biomarkers in liquid biopsies, such as plasma, serum, urine, saliva, CSF etc.
- ✓ Characterization of **extracellular vesicles** with RNA-Seq and small RNA-Seq, ideal for low-input samples.
- ✓ Immune profiling from blood-derived cell types using **single-cell RNA sequencing**.



AGBIO

Scalable transcriptomic solutions for agricultural and environmental samples.

- ✓ Track record of **ground-breaking plant and animal studies** using Lexogen's RNA sequencing technologies.
- ✓ Robust and scalable NGS solutions for **crop science, livestock multi-omics, and food safety**.
- ✓ Efficient isolation of high-quality RNA from challenging tissue, including enrichment for functional small RNAs.
- ✓ Microbiome studies in hosts, soil, and environmental samples.



DRUG SCREENING

Streamlined, extraction-free workflows for high-throughput discoveries.

- ✓ **Extraction-free** protocols for high-throughput drug screening assays on crude cell lysates.
- ✓ Gene expression profiling of ultra-low input samples, corresponding to **1-100 cells or 10 pg to 1 ng** of total RNA input.
- ✓ Subcellular or rare cell RNA analysis, e.g., from circulating tumor cells (CTCs).
- ✓ Comprehensive 10X based single-cell services.

OUR SERVICES

Lexogen NGS Services provide **customizable sequencing services**, including various RNA-Seq, DNA-Seq, and tailored bio-informatics solutions to pharmaceutical and biotech companies, academic institutions, and researchers worldwide. We are passionate about next-generation sequencing (NGS) and the discoveries it enables. Our experience showed us that only a **personalized and dedicated approach** can fully leverage the power of NGS and thus **provide the best data possible**.

Our services are characterized by:



**RNA & NGS
Expertise**



Customization



**Consistency &
Quality**



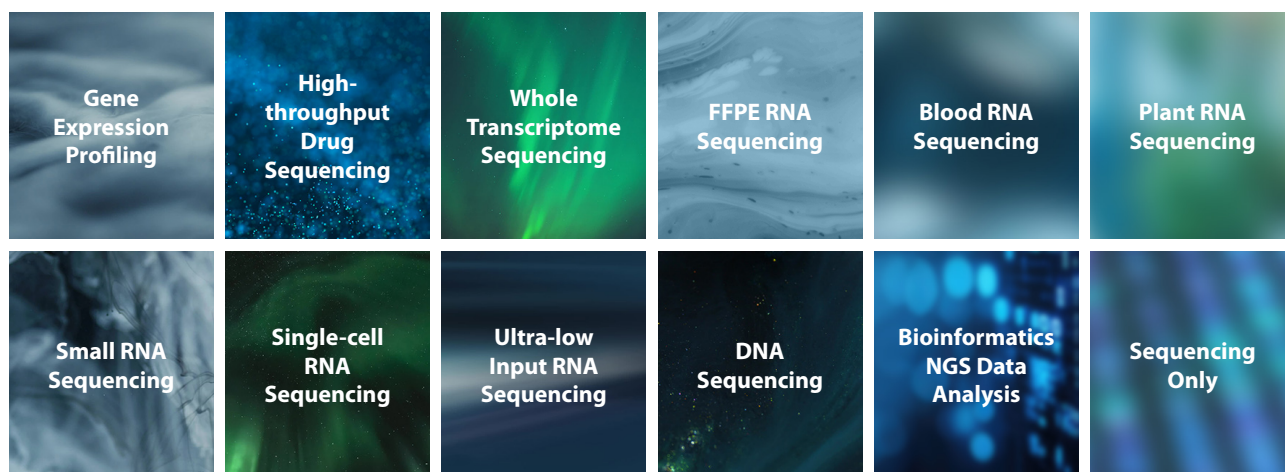
Scalability



Confidentiality

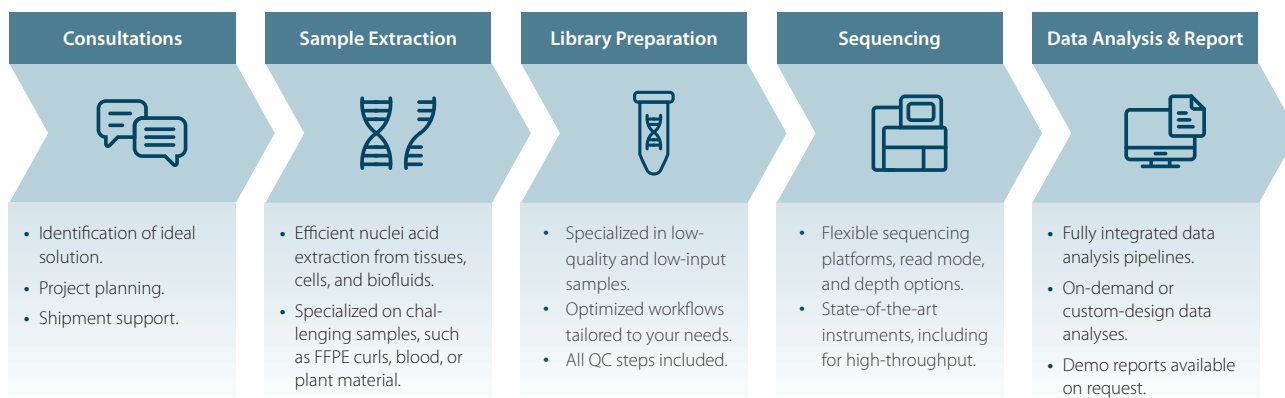
What we offer

Lexogen has established a strong reputation through its achievements in transcriptomics. Our hands-on experience with all kinds of samples, combined with almost two decades of deep expertise in RNA biology and RNA sequencing, has solidified our position as a **leading NGS service provider**. We are recognized as the **specialists in working with challenging input material** and have translated this expertise into a carefully designed service offering that consistently achieves the highest levels of customer satisfaction.



Working with us

Our team of experts will treat your project as their own, taking care of every detail, from initial consultations and experimental planning to **secure data transfer**. Lexogen NGS Services offers **highly flexible service packages**, whether you require a complete end-to-end solution or support starting at any stage of the process. Our goal is to provide **solutions tailored to your specific requirements** and to support **elevating your discoveries with high-quality results**.



For more information, visit our website lexogen.com or contact us at sales@lexogen.com