

Blood RNA Sequencing

Where Lexogen NGS Services
expedite your discoveries



Custom Blood RNA-Seq Service

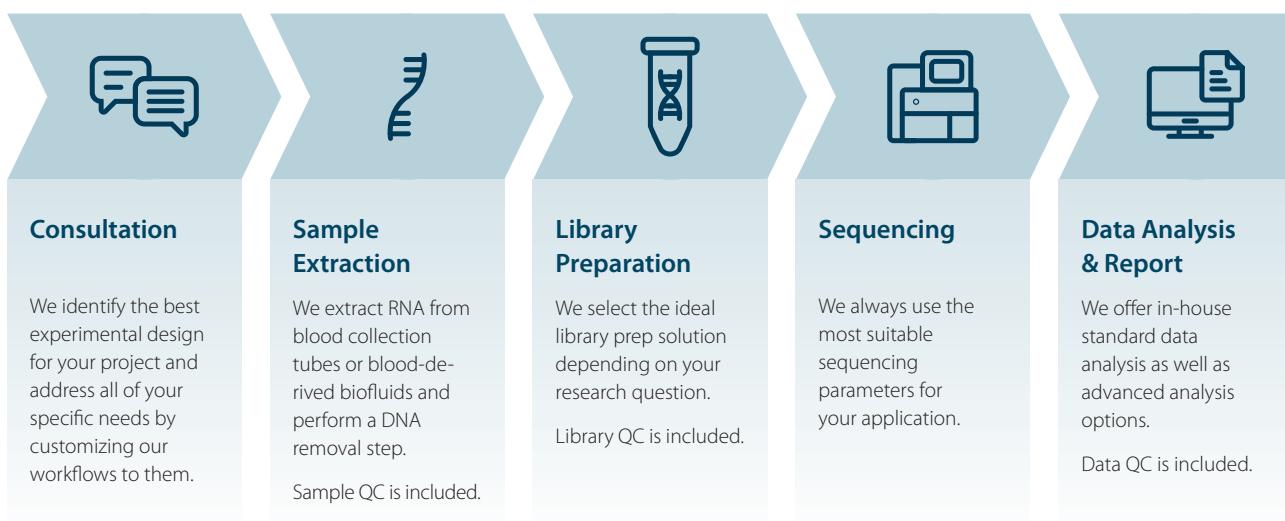
Meaningful transcriptomic data from whole blood and blood-derived biofluids

High abundance of undesired globin transcripts, individual profiles of hemoglobin variants, and elevated DNA content make **whole blood samples a complex input material for RNA sequencing**. Our Blood RNA Sequencing Services address common challenges and provide reliable blood transcriptomics data, even from low-quality blood samples.

Our success stems from years of hands-on experience and optimized blood transcriptomics workflows. Lexogen's end-to-end services include RNA extraction from various blood collection tubes, different library preparation options paired with efficient globin mRNA removal steps including custom solutions, and tailor-made data analysis.

Working with us

Benefit from our streamlined Blood RNA-Seq services or start at any step from extraction to data analysis and reporting. Our different service packages can additionally be **customized to fit your individual needs and requirements**.



How does our Blood RNA-Seq Service stand out?



Any sample, any input

Ideal for low-quality (RIN <5) and low input RNA samples (<10 ng) from whole blood and biofluid samples.



Efficient globin removal

Our blood-optimized workflows remove undesired globin transcripts efficiently for maximized gene detection.



Customized end-to-end NGS Service for blood

From extraction to data analysis - our streamlined blood workflows are tailored to your needs and requirements.

Our Blood RNA-Seq Service is as individual as you are!

We offer different streamlined solutions to uncover the secrets in your blood samples. Choose between our regular blood transcriptomics workflows for **Gene Expression Profiling**, **Whole Transcriptome Sequencing**, or small RNA-Seq for Blood, or benefit from our **custom blood RNA-Seq Services** optimized for **High throughput Expression Profiling for Blood** or **Whole mRNA-Seq for Blood**, the ideal choice to accelerate discoveries from blood.

High-throughput Expression Profiling for Blood

- ✓ Streamlined high-throughput blood screenings
- ✓ Ideal for large sample throughput
- ✓ Maximized gene expression profiling of blood samples
- ✓ Biomarker discovery in blood

Whole Blood Total or mRNA-Seq

- ✓ Efficient enrichment for blood-derived mRNA
- ✓ Ideal for detection of isoforms and splice variants or long non-coding RNAs in whole blood
- ✓ Detection of fusion genes and SNPs
- ✓ Biomarker discoveries

Blood Gene Expression Profiling

- ✓ Cost-efficient gene expression analysis of blood
- ✓ Compatible with low-quality RNA
- ✓ Ideal for lowly concentrated blood samples
- ✓ Identifying novel drug targets
- ✓ Pathway analysis on blood samples

Blood Small RNA Sequencing

- ✓ miRNA discovery in blood as biomarkers
- ✓ Identification of novel small RNAs in biofluids
- ✓ Expression profiling of blood-derived small RNAs
- ✓ Post-transcriptional regulation studies mediated by small RNAs in blood



Figure 1 | Lexogen's custom Whole Blood mRNA-Seq workflow enables accurate analysis of blood-derived mRNAs.

Interested in our NGS Services? Consult with us on your project:



Want to capture DNA levels, too?

Exploit the **full potential** of your blood samples with Lexogen NGS Services, and combine our Blood RNA-Seq Service with **DNA-Seq applications**, including **Whole Genome or Exome Sequencing**.

