LEXOGEN
The RNA Experts

lexogen.com

Plant RNA Sequencing

Where Lexogen NGS Services plant the seeds of innovation

Nurturing Science with Complete Plant RNA-Seq Services

Tackle the challenges of life with Lexogen's tailored NGS Services for plant transcriptomics

Gene expression studies, particularly **RNA-Seq, are revolutionizing plant research and agricultural biotechnology** by enabling scientists to identify genes crucial for plant-specific traits. This knowledge is being used to develop more resilient crops through genetic engineering, breeding, and seed selection, ultimately contributing to food safety and sustainable agriculture.

At Lexogen NGS Services, we have **years of hands-on experience with the most diverse and challenging plant samples** allowing us to establish **optimized workflows for NGS-based analysis of plants and plant-associated microenvironments**.

Working with us

Benefit from our streamlined Plant 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**.

Consultation

We identify the best experimental design for your project and address all of your specific needs by customizing our workflows to them.

Sample Extraction

We extract RNA from any plant tissue and perform a DNA removal step where applicable.

Sample QC is included.

Library Preparation

We select the ideal library prep solution depending on your research question.

Library QC is included.

Sequencing

We always use the most suitable sequencing parameters for your application.

Data Analysis & Report

We offer in-house standard data analysis as well as advanced analysis options.

Data QC is included.

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

How does our Plant RNA-Seq Service stand out?

Any sample, any input

Ideal for low-quality (RIN <5) and low input RNA samples (<10 ng) from any plant tissue or field sample.

Microbial ecosystems

Supported transcriptomic co-analysis of plants and other organisms, such as bacteria or yeast, for a full picture of the microbiome.

Customized end-to-end NGS Service for plants

From extraction to data analysis - our optimized plant workflows are tailored to your needs and requirements.

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

We offer different solutions to uncover all the secrets within your plant samples: choose between **Gene Expression Profiling, Whole Transcriptome Sequencing, Small RNA Sequencing, Plant-Microbe Dual RNA-Seq, and DNA Sequencing**, or select a combined approach.

Plant Gene Expression Profiling

- ✓ Ideal choice for **gene expression analysis (eQTL)**
- ✓ Identification of traits and specific markers in crop
- ✓ Understanding plant development
- ✓ Alternative polyadenylation (APA) studies

Plant Whole Transcriptome Seq

- ✓ Covering **non-coding transcripts**
- ✓ Alternative splicing studies
- ✓ Detection of fusion genes and SNPs
- ✓ Transcriptome Assemblies

Plant Small RNA Sequencing

- ✓ miRNA discoveries in plants
- ✓ Small RNA analysis in plant extracellular vesicles (EVs)
- ✓ Epigenetic regulations

Plant-Microbe Dual RNA-Seq

- ✓ Plant-Microbe interactions (Microbiome Studies) between plants and other organisms like bacteria and yeast
- ✓ Study of resistance mechanisms

Plant DNA Sequencing

- ✓ Whole Genome Sequencing
- ✓ Low-pass Sequencing
- ✓ Paired RNA and DNA-Seq analysis

Plant Bioinformatics

- ✓ Combined data analysis for streamlined offering of plants transcriptomics service
- ✓ Custom Bioinformatics Solutions

Interested in our NGS Services?

Consult with us on your project.