

Next Generation Sequencing



NGS Solutions to Advance Your Research

Amplicon Sequencing

- Amplicon-EZ
- Short-read amplicons for >100bp
- Long-read amplicons for >500bp

RNA Sequencing (RNA-Seq)

- Standard and strand-specific for mRNA and total RNA
- Small RNA
- Ultra-low input
- Iso-Seq
- High-throughput gene expression screening
- Single-cell

Plasmid-EZ

- Full length plasmid sequencing

Whole Genome Sequencing (WGS)

- Short- and long-read
- Low-pass

Targeted Sequencing

- Whole exome
- Cancer and custom gene panels
- CRISPR validation assay

Clinical Sequencing

- CLIA whole genome and exome
- RUO assays in CLIA environment

Viral Genome Sequencing

- AAV, lentivirus, and more
- RNA and DNA viruses

Immunogenomics

- Bulk and single-cell immune repertoire profiling
- Precision Antibody Discovery

Epigenomics

- Short- and long-read whole genome
- Methyl-Seq
- Single-cell and bulk ATAC-Seq
- ChIP-Seq

Metagenomics

- Whole genome
- 16S assay for bacterial ID
- ITS2 assay for fungal ID
- Microbe-EZ (Europe only)

Proteomics and Spatial Genomics

- Digital spatial profiling
- Olink® proteomics



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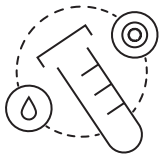
Next Generation Sequencing



The Azenta Life Sciences Difference

- Experience processing over 100 sample types including complex, novel, and less-than-ideal samples.
- Continuous optimization of solutions through increased automation and platform offerings.
- One of the industry's highest on-time delivery rates with over 92% of projects delivered on time.
- Expertise sequencing a variety of organisms with over 200 species sequenced.

Quality Through Every Step



Sample Sourcing

Access to an extensive biorepository



Design

Free consultations from expert scientists



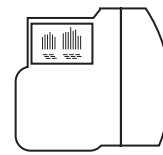
Extraction

Myriad of sample types accepted



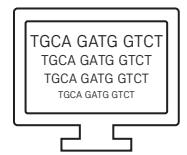
Library Prep

Automated processes improve reproducibility



Sequencing

Utilizing the latest platforms and technologies



Bioinformatics

Customizable offerings based on your needs

NGS Platforms

illumina®

PacBio

10X GENOMICS

nanoString

Oxford NANOPORE technologies

Olink

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