

# Complete NGS Solutions for Microbiology

Complete Genomics offers a range of end-to-end NGS solutions for microbiology applications in clinical research, veterinary science, food safety, and environmental testing.



**Fast**



**Cost-Effective**



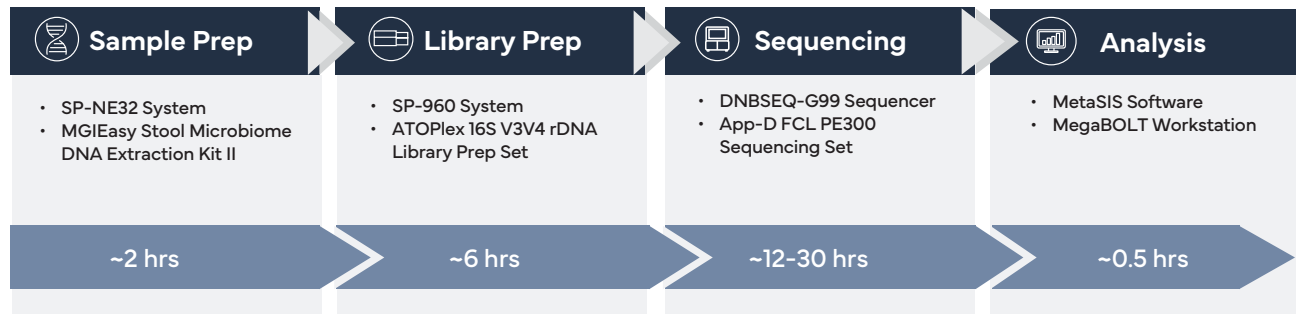
**Comprehensive**

## 16S rDNA Sequencing

The V3-V4 region is highly variable and effective in revealing diverse microbial populations, making it ideal for microbial identification and classification. With PE300 read length and high-speed capabilities, DNBSEQ-G99 is a perfect sequencer for this application.

✓ Sample to results in 39 hours

✓ Sequencing cost as low as \$2/sample

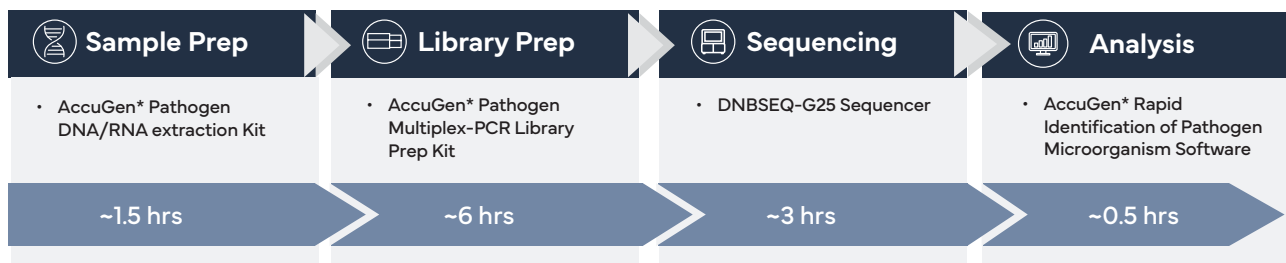


## Pathogen Targeted Sequencing

Pathogen Targeted Sequencing (tNGS), an amplicon-based sequencing, offers fast and cost-effective solutions for rapid screening and identification of common or known pathogens. The tNGS workflow, powered by Complete Genomics' DNBSEQ-E25 sequencer with the AccuGen\* Pathogen kits and software, enables the detection and quantification of 330 common pathogens (178 bacteria, 96 viruses, 56 fungi, and protozoans) and 150 drug-resistant genes from a variety of specimens, including blood, swab, sputum, BAL, urine, CSF, etc.

✓ Sample to results in 11 hours

✓ Sequencing cost as low as \$25/sample



\*Complete Genomics is the sole distributor of AccuGen products, from Health GeneTech (HGT), in the US.

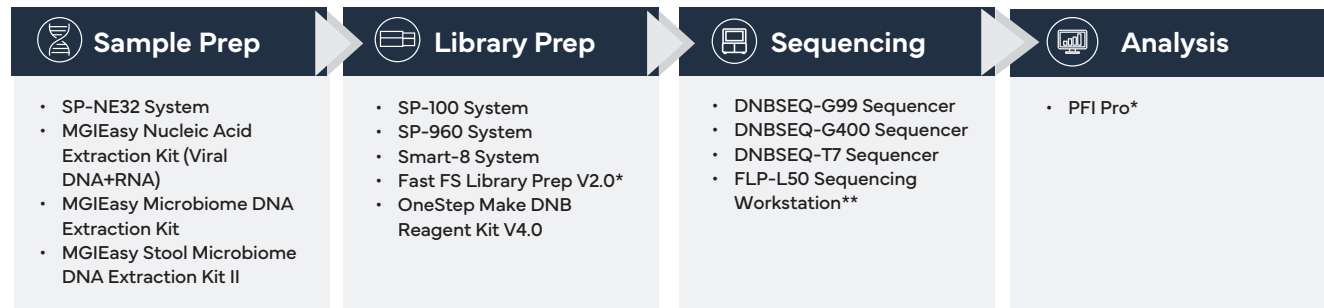
## Shotgun Metagenomic Sequencing

Shotgun metagenomic sequencing (mNGS), is a powerful tool for gaining comprehensive insights into the biodiversity and functions of entire microbial communities directly from natural environments such as soil, water, or the human gut. It is especially effective for studying unculturable microorganisms, which traditional methods cannot analyze.

Complete Genomics offers automated end-to-end mNGS solutions with various library preparation systems and sequencers tailored to your throughput needs.

✓ Sample to results as fast as 11 hours

✓ Sequencing cost as low as \$10/sample



\*Available Q3 2024 \*\*Available Q4 2024

## Performance and Pricing

Application	DNBSEQ Sequencer	# of Reads per Flow Cell	# of Flow Cell	Read Length	# of Samples per Flow Cell	# of Samples per Run	Cost per Sample*
16S rRNA Sequencing	G99	80M	2	PE300	500	1000	\$2
Pathogen Targeted Sequencing	E25	25M	1	SE100	20	20	\$25
Shotgun Metagenomic Identification	E25	25M	1	SE100	1	1	\$500
	G99	80M	2	SE100	3	6	\$133
	G400	1.5-1.8B	2	SE50	64	128	\$23
	T7	5.8B	4	SE100	232	928	\$10
	FLP-L50	500M	1	SE50	20	20	\$40
Shotgun Metagenomic Assembly	E25	25M	1	PE150	1	1	\$650
	G99	80M	2	PE150	3	6	\$217
	G400	1.5-1.8B	2	PE150	64	128	\$34
	T7	5.8B	4	PE150	232	928	\$11
	FLP-L50	500M	1	PE150	20	20	\$97

\* This cost includes the sequencing reagent cost but not the cost of the instruments or other reagents such as library or extraction kits.

### 3rd Party Library Kit Compatibility

Complete Genomics provides a variety of library conversion kits, enabling seamless sequencing of Illumina's libraries on all the DNBSEQ sequencers.



Ordering information and more at [completegenomics.com/applications/microbiology](https://completegenomics.com/applications/microbiology)

