

# abSEQ™ Genetic Sequencer

## Easy-to-Use and Diagnostic-Ready

### SIMPLE AND INTUITIVE

All-in-one cartridge design integrates reagents directly into the microfluidic chip, eliminating complex setup steps. The integrated CMOS detection module reads signals without traditional optical systems, requiring no post-run washing or environmental controls. Ready to use in 10 minutes, *abSEQ*™ enables even labs with limited sequencing experience to confidently perform NGS in-house with minimal hands-on effort.

### FAST TURNAROUND

Same-day sequencing delivers results in as little as 5 hours, critical for clinical diagnostics and time-sensitive applications. DNA Nanoball Technology maintains exceptional accuracy (>90% Q30) while eliminating bottlenecks associated with third-party service providers. Rapid turnaround empowers labs to respond to urgent cases and accelerate research timelines without compromise on data quality.

### FLEXIBLE AND SECURE

The 25-million-read throughput is perfectly sized for targeted panels and small-to-medium studies, allowing labs to scale sequencing to actual needs without waste. Critically, *abSEQ*™ operates as a standalone system without requiring external cloud services—keeping sensitive biological and patient data entirely in-house. Complete data sovereignty ensures regulatory compliance, eliminates privacy concerns and provides total control over your genomic information.

## APPLICATIONS

Methylation Sequencing

Hybridization Probe Capture

High-Throughput Proteomics

Single-Cell Sequencing

Targeted Amplicon-based

Long-Read Sequencing

Whole Genome Sequencing

Whole Transcriptome Sequencing

Spatial Transcriptomics



# Key Application for *abSEQ*<sup>TM</sup>

	Applications	No. of samples
Targeted gene sequencing	Amplicon-based	1–250
	Enrichment-based	1–250
	Genome editing	1–250
	Immune repertoire	1–12
Transcriptomics	3' gene expression	5–25
	Targeted RNA panel	5–25
Microbial genomic	Pathogen detection	1–25
	16s amplicon sequencing	1–250
	Shallow shotgun metagenomic	1–12
	Shortgun metagenomics	1–2
	Small WGS	1–25

## *abSEQ*<sup>TM</sup> Sequencing Set

Read Lengths	Effective Reads*	Data Output
<i>abSEQ</i> <sup>TM</sup> SE100	25M	2.5GB
<i>abSEQ</i> <sup>TM</sup> PE150	25M	7.5GB
<i>abSEQ</i> <sup>TM</sup> SE100 AppC	20M	2.0GB
<i>abSEQ</i> <sup>TM</sup> PE150 AppC	20M	6.0GB

\*The effective reads value is obtained based on the operation of a specific standard library. The actual application library may vary depending on the sample type and library construction method.

\*\*The percentage of bases above Q30 and the running time are averaged over the entire run for a particular standard library. The actual performance may be affected by factors such as sample type, library quality, insert length and others

## Ordering Information

Part Number	Product Name
801001	<i>abSEQ</i> <sup>TM</sup> Genetic Sequencer
302011	<i>abSEQ</i> <sup>TM</sup> Sequencing Set SE100
302012	<i>abSEQ</i> <sup>TM</sup> Sequencing Set PE150
302013	<i>abSEQ</i> <sup>TM</sup> Sequencing Set SE100 AppC
302014	<i>abSEQ</i> <sup>TM</sup> Sequencing Set PE150 AppC
302301	<i>abSEQ</i> <sup>TM</sup> UDB Adapter Kit A
302302	<i>abSEQ</i> <sup>TM</sup> UDB Adapter Kit B
302303	<i>abSEQ</i> <sup>TM</sup> UDI Adapter Kit A
302304	<i>abSEQ</i> <sup>TM</sup> UDI Adapter Kit B

For more information

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