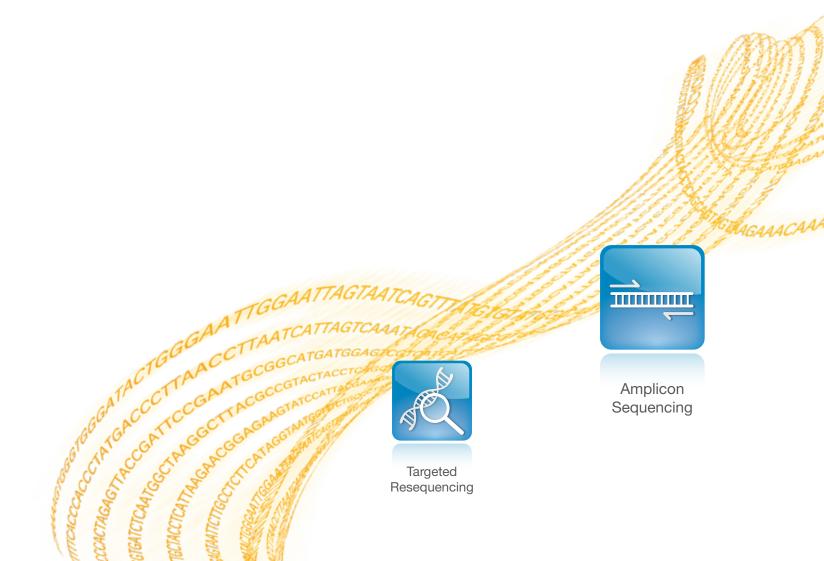


MiSeq® system applications

Choose your application. Load, and go.

MiSeq is the most accurate and easiest to use benchtop sequencer in the world.

Optimized sample preparation kits, push-button sequencing, and automated data analysis, create the first end-to-end sequencing solution. Delivering the easiest workflow, and the most accurate results for the widest breadth of applications. And no need for extra hardware—store, analyze, and share data with BaseSpace®. From sample to data in a single day. All at the touch of a button.





The fastest and easiest sample prep.

Nextera® XT DNA Sample Prep Kit

Nextera technology combines with the MiSeq system to provide the fastest and easiest solution for amplicon and small-genome sequencing. In one quick step, DNA is simultaneously fragmented and tagged with sequencing adapters to deliver libraries that can be rapidly sequenced with the MiSeq system.

Rapid sample preparation

Complete sample prep in as little as 90 minutes with only 15 minutes of hands-on time

Fastest time to results

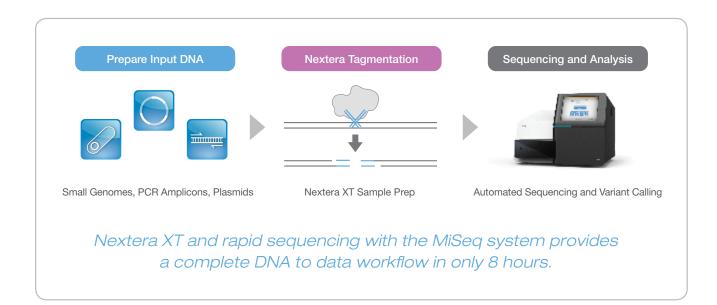
Go from DNA to data in only 8 hours

Optimized for small genomes, PCR amplicons, and plasmids

One sample prep kit for many applications

Innovative sample normalization

Eliminates the need for library quantification prior to sample pooling and sequencing



Amplicon sequencing transformed.

TruSeq® Custom Amplicon Kit

Optimized for the MiSeq system, TruSeq Custom Amplicon (TSCA) offers a highly multiplexed amplicon and sample assay for powerful, fast, and cost-effective variant identification. Requiring just 150 ng of starting gDNA, TSCA is amenable to a wide range of samples, including non-human samples and samples available in limited quantity. Data analysis is performed directly on the MiSeq system, providing quick, easy-to-interpret results for both germline and somatic variation.

Simplest assay customization

Easily create projects online with DesignStudio™ for a range of amplicon sizes and target genomes

Fastest sample processing

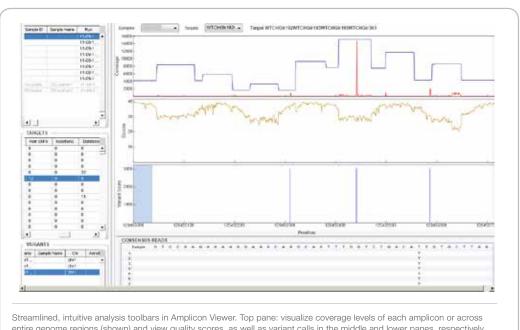
Prepare and enrich up to 1,536 amplicons per reaction and 96 samples per plate simultaneously using standard lab equipment

Shortest time to project completion

Go from genomic DNA to fully analyzed data in less than 2 days

Easiest analysis

Access pre-configured, on-instrument software for automated variant calling and data analysis



entire genome regions (shown) and view quality scores, as well as variant calls in the middle and lower panes, respectively. Left scroll bars allow users to navigate through samples and targets, and track variants.

The widest breadth of sequencing applications.

The only benchtop sequencing system capable of automated paired-end reads and up to 8.5 Gb per run, delivering over 500 bases of sequence information. Sample prep kits optimized for a variety of applications. Empower your research with the MiSeq system.

Application	Recommended Read Le	ngth Illumina Solution
Targeted Resequencing		
Amplicon Sequencing (tens of targe	ts) 1 × 250	•
Amplicon Sequencing (hundreds of	targets) 2 × 250	
Hybrid Capture (thousands of target	2 × 75	• • •
16S Metagenomics	2 × 150	• •
Clone Checking	1 × 36	•
Small-Genome Sequencing		
De novo	1 × 36, 2 × 250	• •
Resequencing	1 × 36, 2 × 250	• •
Plasmids	1 × 36, 2 × 250	• •
RNA Sequencing		
Small RNA Sequencing	1 × 36	
RNA-Seq (microbial) [†]	2 × 50-250	♦
Quality Control		
Library QC	2 × 25	• • • •
Regulation		
ChIP-Seq	1 × 36	•
[†] Use with Ribo-Zero [™] .		
DNA	A	RNA
TruSeq DNA Sample Prep Kit	Nextera XT DNA Sample Prep Kit	TruSeq RNA Sample Prep Kit
TruSeq Custom Enrichment Kit	Nextera Custom Enrichment Kit	TruSeq Small RNA Sample Prep Kit
 TruSeq Custom Amplicon Kit 		

MiSeq system applications

MiSeq is the most accurate and easiest to use benchtop sequencer in the world. With the largest applications portfolio at your fingertips. And, access to an entire community of users and tools with BaseSpace. All designed to move your research forward.

The pocket inserts showcase just a few of the applications we've explored with the MiSeq system. And this is just the beginning.

Learn more at www.illumina.com/miseq



