

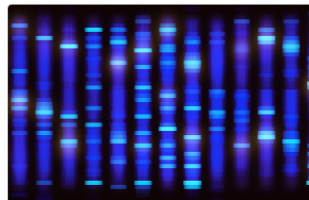
Focused power on the MiSeq System

Access focused applications such as targeted resequencing, metagenomics, small genome sequencing, targeted gene expression profiling, and more. MiSeq reagents enable up to 15 Gb of output with 25 million sequencing reads and 2 × 300 bp read lengths.



Methods Guide

All the information you need, from BeadChips to library preparation to sequencer selection and analysis. Select the best tools for your lab.



AmpliSeq for Illumina Sequencing Solution

Delivers a range of ready-to-use and custom panels for simple, flexible targeted resequencing that provides high-quality data you can trust.



Enabling Human Microbiome Studies

See how 16S rRNA sequencing on the MiSeq System enables studies like The American Gut Project.

Featured Products



MiSeq Reagent Kit v3

Optimized chemistry to increase cluster density and read length, and improve sequencing quality scores, compared to earlier MiSeq reagent kit versions.



MiSeq Reagent Kits v2

MiSeq sequencing reagents in pre-filled, ready-to-use cartridges. Micro and nano formats are available for low output applications.



AmpliSeq for Illumina Focus Panel

Targeted DNA and RNA research panel investigating 52 genes with known relevance to solid tumors.

[View All MiSeq Products](#)

Broad Applications Base

The MiSeq System facilitates your research with a wide range of sequencing applications. It is capable of automated paired-end reads and up to 15 Gb per run, delivering over 600 bases of sequence data per read. The library prep kits that it uses are optimized for a variety of applications, including targeted gene, small genome, and amplicon sequencing, 16S metagenomics, and more.

[Explore Applications](#)

Next: Integrated, Optimized Library Prep >

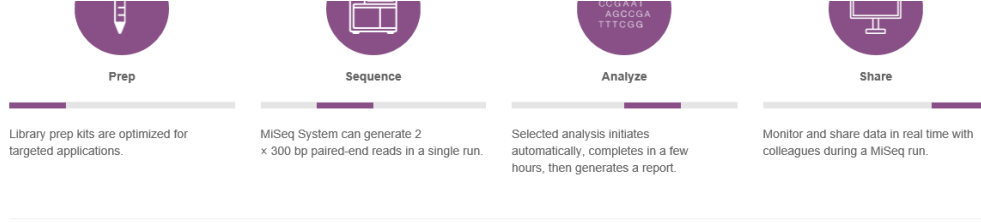


Workflow



ATTGCG





[See MiSeq Application-Specific Workflows](#)

System Specifications

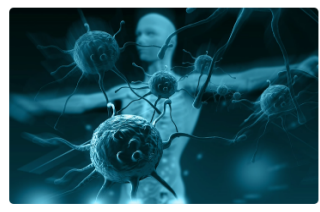
↔
540 Mb–15 Gb
OUTPUT RANGE

|||||
1-25 million
READS PER RUN

↑
2 x 300 bp
MAX READ LENGTH

[View All MiSeq Specifications](#)

Customer Stories



Of Humans and Microbes: a Long Lasting Relationship
Researchers analyzed fecal samples from humans, chimpanzees, bonobos, and gorillas to demonstrate that hominids and certain gut colonizing bacteria co-evolved.
[View Video >](#)

Scaling from Exome to Whole-Genome Sequencing with the DRAGEN Bio-IT Platform
The DRAGEN platform enables GeneDx to scale to whole-genome analysis and identify variants with precision.
[Read Article >](#)

Versatile, High-Throughput Sequencing Supports Australia Genomic Center Growth
NGS expands genomic projects for species ancient and new, large and small.
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The MiSeq Online Community

Join other MiSeq owners in the MiSeq Online Community. Collaborate with Illumina moderators and MiSeq owners. Discuss best practices, troubleshoot, and learn about how others are using MiSeq preparation kits, push-button sequencing, and automated data analysis to fuel their research.

[Join Now](#)



Related Solutions

Small Whole-Genome Sequencing
Small genome sequencing provides comprehensive analysis of bacterial, viral, and other microbial

Targeted Resequencing
With targeted resequencing, a subset of genes or a genomic region is isolated and sequenced, which can

Targeted RNA Sequencing
Targeted RNA-Seq enables researchers to sequence specific transcripts of interest, and provides both

genomes for epidemiology and disease studies.

[Learn More](#)

conserve lab resources.

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quantitative and qualitative information.

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Innovative technologies

At Illumina, our goal is to apply innovative technologies to the analysis of genetic variation and function, making studies possible that were not even imaginable just a few years ago. It is mission critical for us to deliver innovative, flexible, and scalable solutions to meet the needs of our customers. As a global company that places high value on collaborative interactions, rapid delivery of solutions, and providing the highest level of quality, we strive to meet this challenge. Illumina innovative sequencing and array technologies are fueling groundbreaking advancements in life science research, translational and consumer genomics, and molecular diagnostics.

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