



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 [Read More...](#)

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Product Highlights

MiSeq Reagent Kits v3 enable the highest output of all MiSeq kits. The v3 kits retain the same pre-filled, ready-to-use reagent cartridges as the v1 and v2 kits, but offer improved chemistry to increase cluster density and read length as well as improve quality (Q) scores.

MiSeq Reagent Kit v3 allows researchers to:

- Double the output of a single run
- Extend read lengths up to 2 x 300 bp with the 600-cycle kit
- Increase the number of reads to 25 million to unlock new applications

Updated system software unlocks the full benefits of the v3 kits. [Access the latest software.](#)

The MiSeq v3 kits can achieve double the amount of output per flow cell. Kits are available in a 600-cycle format to allow the longest read lengths on any Illumina sequencing system. There is also a 150-cycle format that enables counting applications. In addition, all [MiSeq Reagent Kit v2 configurations](#) will continue to be available. MiSeq reagent components are RFID-encoded and interact intelligently with the MiSeq System to validate compatibility with user-defined applications.

Reagent Kit	No. of Reads	Kit Size (cycles)	Output (max.)	2 × 75 Output	2 × 300 Output
MiSeq Reagent Kit v3	25 M	150, 600	15 Gb	3.8 Gb	15 Gb

Gb = gigabases, M = millions

This product is also available as an [Illumina Advantage \(TG\) product](#). Illumina Advantage large-scale sequencing products feature lot-specific shipments and testing, extended shelf life, and advanced change notifications for greater laboratory efficiency.

Specifications

Maximum Output	15 Gb (600-cycle), 3.8 Gb (150-cycle)
Maximum Reads	Up to 25 Million
Nucleic Acid Type	RNA, DNA
Reagent Type	Cluster Generation, Paired-End Sequencing, Sequencing by Synthesis
Technology	Sequencing
System Compatibility	MiSeq, MiSeq, MiSeq FGx in Research Mode, MiSeqDx in Research Mode

Best Practices for Storing Sequencing Reagents

Sequencing reagent performance depends on thawing technique, thawed storage time, and storage conditions. Learn how to thaw and store sequencing reagents for optimal performance.

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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.

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Product Literature

[E. coli Sequencing on the MiSeq System and Ion Torrent PGM System](#)
Application Note | PDF < 1 MB

[MiSeq System Data Sheet](#)
Data Sheet | PDF | 5 versions

[MiSeq System applications, MiSeq Applications Brochure](#)
Brochure | PDF 3 MB

Manuals and Support Information

[MiSeq Reagent Kit Documentation](#)

[MiSeq System Guide for Local Run Manager Documentation](#)

[Custom Protocol Selector](#)
Generates customized, end-to-end instructions

[All MiSeq Reagent Kit Support](#)

Related Products



MiSeq Reagent Kits v2

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



Nextera XT DNA Library Preparation Kit

Prepare sequencing libraries for small genomes, PCR amplicons, plasmids, or cDNA in as little as 90 minutes, with a low DNA input requirement.



TruSight Tumor 15

Focused sequencing panel to assess 15 genes that are commonly mutated in solid tumors in a single assay, with a simple, rapid workflow.

Related Solutions

MiSeq System

The MiSeq benchtop sequencer enables targeted and microbial genome applications, with high-quality sequencing, simple data analysis, and cloud storage.

[Learn More](#)

Sequencing

Illumina sequencing allows researchers to ask virtually any question related to the genome, transcriptome, or epigenome of any organism.

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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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