illumina

MiSeq™ i100 Series

Powerful, fast, and simple sequencing for oncology research

Access meaningful insights for all your oncology research by identifying key mutations, such as gene fusions, copy number alterations, and other genomic aberrations that underlie tumorigenesis.

The MiSeq i100 Series is here.

Gain more genomic insights and discovery power than you ever thought possible

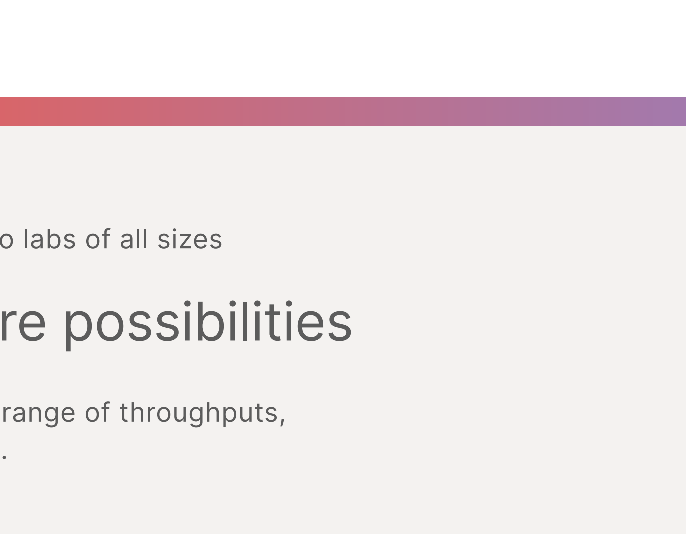
Rapidly uncover insights in your lab

Using the MiSeq i100 Series is as easy as...

1. **Simple, intuitive setup**
   Expedite setup with room-temperature, no-thaw consumables, and three step sample loading in under 20 minutes.
2. **Efficient workflow**
   Sample-to-analysis workflow means less hands-on time and simplified data analysis, which helps reduce the need for bioinformatics expertise.
3. **Accurate, fast results**
   Industry-standard accuracy ready when you are: obtain results quickly with ~4-15.5 hour run times.

Designed for efficient lab operations with reliable results

- **Intuitive interface** for easy navigation
- **Easy onboarding** for new users and applications
- **Maximized walk-away time** throughout the workflow—saving time, resources, and money



The MiSeq i100 Series brings a new level of flexibility to labs of all sizes

More applications enable more possibilities

With multiple reagent kits available, supporting a wide range of throughputs, labs can cost-effectively process samples at any scale.

Flow cell options:[1]

5M →	266	Myeloproliferative neoplastic samples for rapid profiling of driver genes[2]
25M →	20	Solid tumors characterized for DNA and RNA variants[3]
50M →	22	Myeloid cancer samples characterized[4]
100M →	6	Liquid biopsy samples profiled for cfDNA variants (Core LBx)[5]

Achieve high-quality data faster than ever

Powered by XLEAP-SBS™ chemistry, our fastest, highest-quality chemistry, sequencing run times are as fast as four hours. And with onboard secondary analysis, results can be generated in a single day.

Improved run times
Runs as fast as four hours[6]

Accurate, efficient analysis
Onboard DRAGEN™ software and access to a full suite of cloud-based analysis apps

Now labs of all sizes can bring proven sequencing in house

Increased accessibility for improved outputs

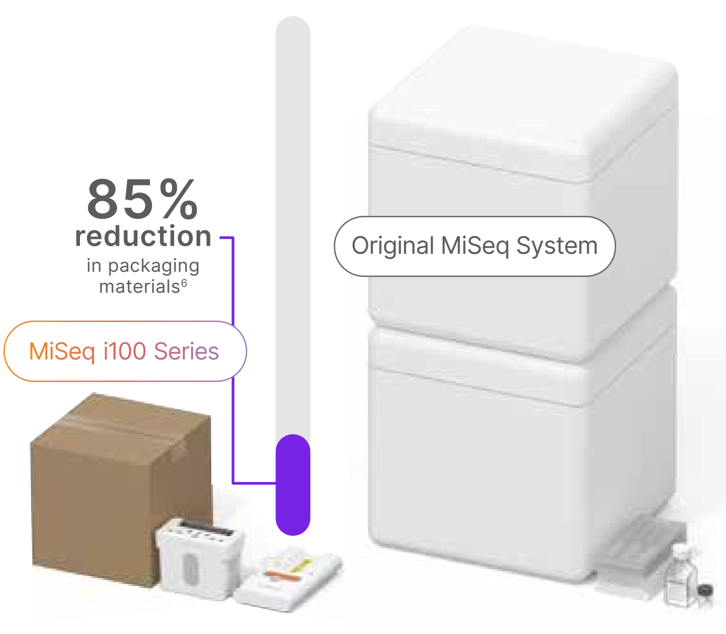
Sample-to-analysis workflow solutions

Oncology focused workflows are available and include library preparation kits, panels, sequencing on the MiSeq i100 Series, and preconfigured DRAGEN secondary analysis.

- **Streamline** experimental planning with preselected library prep kits and targeted gene panels
- **Simplify** data analysis with access to preconfigured pipelines, helping reduce need for bioinformatics expertise
- **Increase** confidence in your results with access to data sets in BaseSpace™ Sequence Hub

Room-temperature shipping and storage

- **XLEAP-SBS reagents** help deliver remarkable sustainability and user experience benefits
- **No dry ice,** no cold packs, and no freezer storage required
- **85% reduction** in packaging materials[6] and easy disposal for most parts
- **Simple setup** and quick access from shelf storage optimizes uptime with no thawing required



> **"Now we can save time unpacking and save on waste. And it helps planning for the sequencing runs because we don't have to think two days before to get a kit out of the freezer. The room-temperature storage really is a game-changer."**
>
> – Geneviève Donpierre
> Team Leader, NGS Sequencing,
> Genome Quebec

Illumina innovation drives approachable NGS for high-quality sequencing, within everyone's reach

Designed for every lab, everywhere

Your trusted partner in genomics

10K+	160K+	150+	600+
MiSeq Systems installed	MiSeq Systems publications[7]	Countries served	Global experts

Sequence confidently with global support services

97% customer satisfaction score[8]

- **Regional teams** offer local access with in-country, multilingual customer service
- **Technical assistance** is available to help with instrument setup and experimental support
- **Worldwide peer network** delivers additional support and insights
- **Broad training options** available online and in person to support your experimental needs

Bring more possibilities to your lab

Learn how the simplicity and flexibility of the MiSeq i100 Series from Illumina enables oncology research to gain insights and answers with unbelievable speed and accuracy.

What will you discover next?

Illumina.com/MiSeqi100

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We are always available for questions, insights, and conversation.
Visit us at illumina.com.

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[1] Estimated throughputs are based on noted experimental parameters. Optimal parameters should be determined empirically.
[2] Based on 28K reads (2 × 150 bp) with an average of 2000× coverage per sample
[3] Based on 2.3M paired end reads per sample using Pillar® oncoReaveal™ Multi-Cancer CNV + RNA fusion panel
[4] Based on 4.5M paired end reads per sample using Pillar oncoReveal Myeloid panel
[5] Based on 33 paired end reads per sample
[6] As compared with MiSeq System
[7] Data calculations on file, Illumina, Inc. 2022
[8] Based on transactional surveys from technical support, service, and field application