

The Genexus System—

the future of NGS is here



Bring fast, automated, end-to-end next-generation sequencing to your lab

One complete system

The Ion Torrent™ Genexus™ System is the first turnkey next-generation sequencing (NGS) solution that automates the end-to-end workflow from the biological specimen all the way to the final report and delivers results in as little as a single day with just two user touchpoints.*

This highly flexible system lets you process samples cost-effectively as they arrive. Its simplicity and practicality make it easy for your clinical research or testing lab to bring NGS in-house, regardless of your lab's current level of NGS experience.

Highlights

- **Unprecedented end-to-end workflow automation and ease of use**—just 20 minutes of hands-on time, two user touchpoints, and results in as little as a single day*
- **Minimize user processing errors** while helping to increase reproducibility of results
- **Ability to analyze samples cost-effectively**, reducing your need for batching and empowering you to deliver results faster than ever

* Processing times for individual sample types vary.

The Genexus System makes in-house NGS accessible like never before

Experience unprecedented end-to-end workflow automation and ease of use

The Genexus System integrates and automates nucleic acid extraction, purification, and quantitation, as well as library preparation, sequencing, analysis, and reporting under a single software ecosystem that reduces the number of instruments and consumables required, and frees up your time for more technical applications, boosting your lab's overall efficiency (Figure 1).

With just 20 minutes of hands-on time and two touchpoints, all users can get up and running quickly with significantly less training, making NGS accessible even if your lab is new to the technology (Figure 2).

Deliver answers faster

Other NGS technologies, as well as the traditional way of outsourcing samples, can take weeks to get results, which can delay answers. With the Genexus System, you can go from a biological specimen to a report in as little as one day (including sample preprocessing). This allows you to provide NGS results at the same time as other single-gene analysis methods such as immunohistochemistry.

Minimize errors

Both instruments come with prefilled reagents and instrument protocols. Plus, the onboard vision system identifies consumable placement and minimizes errors through automated barcode scanning.

Analyze small sample batch quantities cost-effectively

Samples are often processed in batches to keep costs down, which slows turnaround time and affects consistency. With the Ion Torrent™ GX5™ Chip and Genexus™ Coupler, you can process 1–4 samples cost-effectively during a single sequencing run. The GX5 Chip also can multiplex up to 32 single-pool libraries per run.

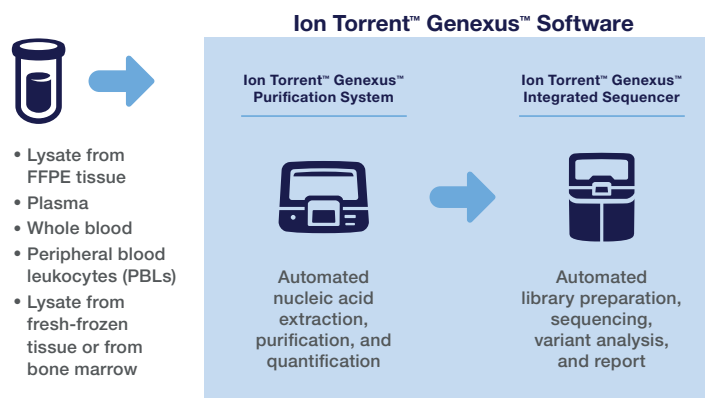


Figure 1. Specimen-to-report NGS automation in as little as a single day.

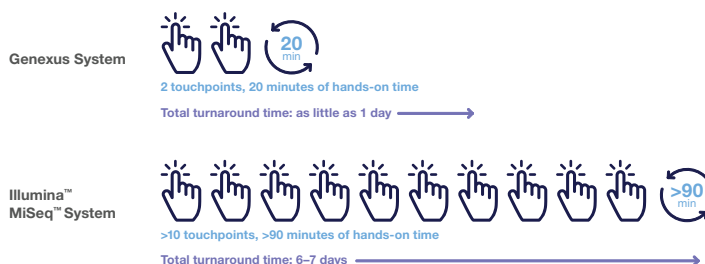


Figure 2. Minimal user hands-on and turnaround times on the Genexus System.

Ordering information

Product	Cat. No.
Genexus Purification System	A48148
Genexus Integrated Sequencer	A45727
GX5 Chip and Genexus Coupler**	A40269

** For more Genexus System consumables information, go to thermofisher.com/genexus.

Find out more at thermofisher.com/genexus