

# A new day for your lab

## A new world of NGS

Go from specimen to report in a single day with a hands-off, automated workflow\*

### Introducing the Genexus System

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

This highly flexible system lets you process samples cost-effectively—even just one—as they come in. And 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 expertise.

### Highlights

- **Unprecedented specimen-to-report automation and ease of use**—just 10 minutes of hands-on time and two user touchpoints
- **Single-day turnaround time** from biological specimen to report
- **Ability to analyze individual samples cost-effectively**, reducing your need for batching and empowering you to deliver results faster than ever

\* Specimen-to-report workflow will be available after the Ion Torrent™ Genexus™ Purification System and integrated reporting capabilities are added in 2020.



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

### Experience unprecedented specimen-to-report automation and ease-of-use\*

The Genexus System integrates and automates nucleic acid extraction and purification, library preparation, sequencing, and analysis 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 10 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 with single-day turnaround time

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 report in just one day.\* That allows you to provide NGS results at the same time as other single-gene methods such as immunohistochemistry (IHC).

### Analyze individual samples cost-effectively

It's difficult for some labs to predict the volume and type of samples they'll receive in a given time. Samples often are processed in batches to keep costs down, which slows turnaround time and affects consistency.

The new Ion Torrent™ GX5™ Chip is designed with four lanes to support variability in sample intake, so you can process one to four samples cost-effectively at once. The GX5 Chip also can multiplex up to 32 single-pool libraries per run.

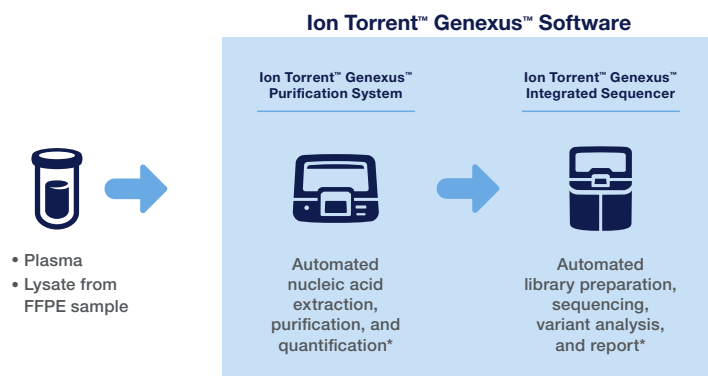


Figure 1. Specimen-to-report NGS automation in a single day.

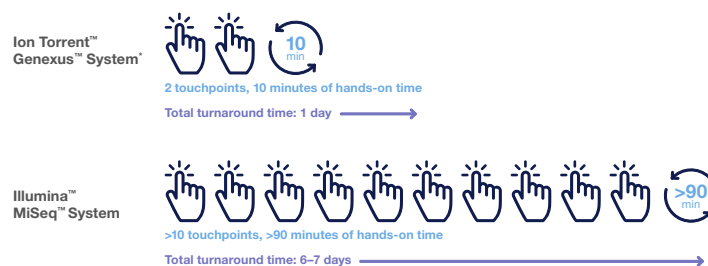


Figure 2: Minimal user hands-on and turnaround times on the Genexus System.

### Ordering information

Product	Cat. No.
Genexus Integrated Sequencer	A45727
GX5 Chip and Genexus Coupler	A40269
Genexus GX5 Starter Pack-AS	A40279
Genexus GX5 Starter Pack-HD	A40280

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The content provided herein may relate to products that have not been fully validated by Thermo Fisher Scientific and is subject to change without notice.

Find out more at [thermofisher.com/newday](https://thermofisher.com/newday)