

SARS-CoV-2

The Genexus next-generation sequencing (NGS) platform for SARS-CoV-2 research and beyond

Benefits of NGS for infectious disease research

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|-----------------------------------|--------------------------|----------------------|---|
| Automated | Rapid | Integrated | |
| Easy-to-use, hands-off | Fast targeted | Seamless informatics | Ion Torrent [™] Genexus [™] |
| workflow, even for new | sequencing workflow with | with simplified, | Integrated Sequencer |
| NGS users | results in one day* | end-to-end solution | |
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| | | | |
| Sample input Automated | | sequencing | Integrated analysis |
| 1–10 ng RNA or cDNA input Enables | | ced processing | Access to local and global |

per pool

errors, increased reproducibility

surveillance networks in a few clicks

Unprecedented speed and simplicity with just 1 touchpoint and 10 minutes of hands-on time*

Genexus Integrated Sequencer

Ion AmpliSeq[™] SARS-CoV-2 Insight **Research Assav**

Other NGS platforms



Turnaround time: 3 days -

* Processing times for individual samples may vary. Additional touchpoint(s) and hands-on time may be required for sample extraction and preparation steps depending on choice of assay and instrument used.

*ion*torrent

Unlock low-titer samples with superior sensitivity and robust performance with the Genexus Integrated Sequencer

Ion AmpliSeq SARS-CoV-2 Insight Research Assay

- Superior sequencing performance with up to 99.85% coverage of the Omicron variant and lowest reported dropout rates**
- **High success rates**, even for samples with low viral loads (as low as 20 copies)
- Variant-tolerant primers for robust coverage of new mutations

Ion Torrent[™] GX5[™] Chip

 Maximum flexibility enables sequencing of 1–4 lanes per run with 12–15 million reads per lane







Supporting NGS research applications beyond infectious disease

Ion Torrent[™] NGS technology offers flexible sequencing and automation tools to help you find answers. Discover next-generation simplicity with integrated systems for speed and power across various applications.

- **Content for all**—targeted sequencing of viruses, bacteria, fungi, or human samples
- Ease of adoption—hands-off, set-up-and-go workflow is highly accessible, regardless of the level of NGS expertise
- Scalability—panels of varying sizes with different chip capacities



Ready-to-purchase fixed panels and custom panels compatible with the Ion Torrent[™] Genexus[™] System, now available

** Information gathered as of December 2, 2021, from www.gisaid.org.



Custom panels compatible with the Genexus System, now available



Assays compatible with the Genexus System, coming soon

Learn more at **thermofisher.com/ngs** or speak to your sales representative today

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