

# The future of NGS is here

## The Ion Torrent™ Genexus™ System

Provides a fast and automated end-to-end next-generation sequencing (NGS) solution, no matter your level of expertise.

## Automating to reduce touchpoints

### Touchpoint 1

- Nucleic acid (NA) extraction
- NA quantification
- Sequencing plate preparation
- Storage NA plate preparation

### Touchpoint 2

- Library preparation
- Templating
- Sequencing
- Analysis

## Research applications



Oncology



Inherited disease



Infectious disease\*\*



Reproductive health\*\*

Find out more at [thermofisher.com/ngs](http://thermofisher.com/ngs)

\* Formalin-fixed paraffin-embedded tissue  
\*\* Genexus Integrated Sequencer only

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### Touchpoint 1



Genexus™ purification system

### Touchpoint 2



Genexus™ integrated sequencer

### 1 report



## Benefits

- 1** day results possible
- 2** user touchpoints
- 20** min hands-on time

## Workflows

Use Oncomine™ Precision Assay workflows for a variety of sample types. Detect key biomarkers in half the time it takes with standard sequencing.



Easy to analyze

Gene	Sample	Variant	Frequency	Filter	RefSeq
BRCA1	Sample 1	c.5276G>A	0.001	None	NC_000017.3
BRCA2	Sample 2	c.6800C>T	0.002	None	NC_000012.3
TP53	Sample 3	c.732G>A	0.005	None	NC_000011.7
EGFR	Sample 4	c.858A>G	0.010	None	NC_000007.3
HER2	Sample 5	c.2513G>A	0.003	None	NC_000002.3
PIK3CA	Sample 6	c.3438G>A	0.001	None	NC_000003.3
KRAS	Sample 7	c.35G>A	0.002	None	NC_000001.3
BRAF	Sample 8	c.1799G>A	0.001	None	NC_000005.3
NRAS	Sample 9	c.34A>G	0.001	None	NC_000004.3
RET	Sample 10	c.1204G>A	0.001	None	NC_000006.3

Relevant Biomarkers

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