

# Faster and more secure data analysis

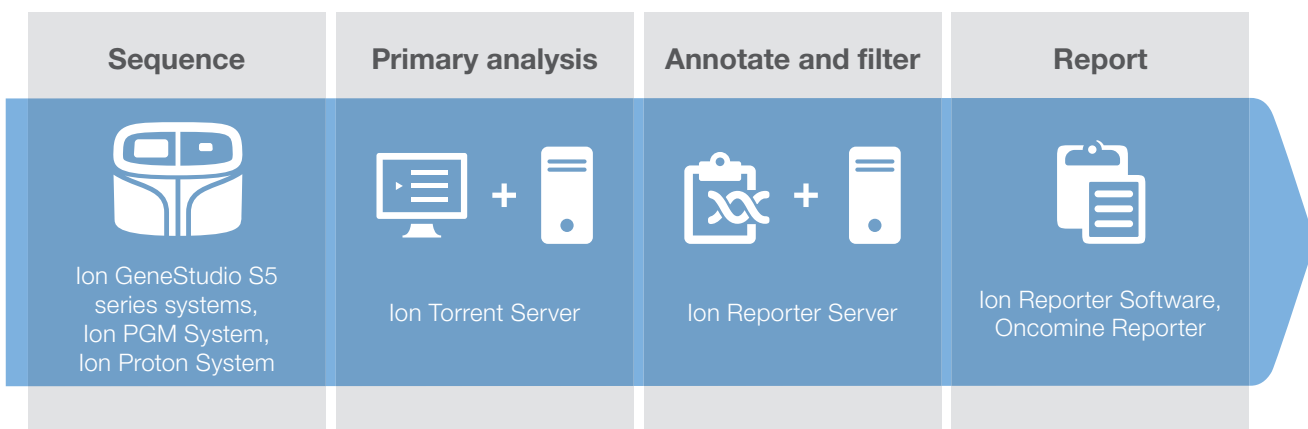
Characterize sequencing variants efficiently and securely using the Ion Reporter Server



The Ion Reporter™ Server hosts a locally deployed instance of Ion Reporter™ Software, combining an optimized suite of simple data analysis tools with the control and access of a powerful computer server in your own building. Ion Reporter Software supports the analysis of data from Ion GeneStudio™ S5 series, Ion PGM™, or Ion Proton™ systems, covering a growing number of research applications, from human variant detection to microbial diversity. A complimentary version of Ion Reporter Software is available on Thermo Fisher Connect.

### Key benefits

- **Efficient**—fast upload and access to your data
- **Secure**—designed to enable protection and security for your data, with role-based data access, network firewalls, activity audits, data archiving and recovery, and data sharing
- **Automated**—push-button data analysis with preconfigured workflows and integration with Ion Torrent™ informatics solutions
- **Convenient**—provides support for unlimited data analyses from up to four Ion GeneStudio S5 series, Ion PGM, or Ion Proton systems



**Figure 1. Ion Torrent™ data analysis solutions easily integrate to automate your informatics needs by streamlining data analysis from sequencing data to final interpretive reports.**

Simple run-planning templates enable automated data transfer from the Ion Torrent™ Server to the Ion Reporter Server for variant analysis, including result filtering, annotation, and final report generation using Ion Reporter Software. Additionally, Ion Torrent™ OncoPrint™ Reporter helps link variants to labels, guidelines, and clinical trials with custom, lab-generated reports.

The Ion Reporter Server is built to automate the workflow from sample to report. When a sequencing run is initiated on an Ion Torrent™ sequencer, an Ion Reporter™ workflow can be selected so that the data transfer and analysis are automated from run initiation to review of annotated variants. This helps save time and allows you to get answers faster with streamlined, automated data transfer and analysis. Further customize and integrate Ion Reporter Software within your research lab environment with the provided APIs, including those for automated data extraction. Free yourself from the pain of data analysis and focus on what really matters—discovering the biological meaning of your data.

Many research applications, including in the areas of oncology, inherited diseases, reproductive health, and infectious diseases, are supported within Ion Reporter Software using preconfigured workflows for Ion AmpliSeq™ panels and Ion Torrent™ OncoPrint™ research assays. A custom variant calling and germline variant filtering algorithm is used to accurately estimate somatic variants in cancer research samples for the Ion Torrent™ OncoPrint™ Tumor Mutation Load Assay. These workflows can be used to analyze single samples, paired tumor/normal samples, and family trios. Detect SNPs, indels, CNVs, gene fusions, and aneuploidies in a single automated workflow using our custom germline and somatic algorithms. Ion Reporter Software also provides a 16S metagenomics workflow that enables you to assess the population diversity of a

polymicrobial sample, based on 16S variable regions. Workflows are flexible to enable custom optimization and can also be locked to enable controlled use without depending on an analyst or bioinformatician.

## Ion Reporter Server specifications

Dual 10-core E5 2.6 GHz CPUs  
 128 GB RAM  
 15 TB of usable storage  
 Ubuntu™ 14.04 LTS operating system

	Ion Reporter Software
Automated uploads from sequencer	•
Read mapping, variant calling, and full annotation in a single workflow	•
Support for custom annotations	•
IT support contract (1 year)	•
Annotate industry-standard VCF files	•
Single-sample analysis	•
Paired-sample analysis	•
Tumor/normal somatic analysis	•
Genetic trio analysis	•
CNV detection in targeted genomic regions	•
Role-based logins	•
Collaborations	•
Audit tracking and reporting	•
Latest security protocols (256-bit encryption)	•

## Ordering information

Product	Cat. No.
Ion Reporter Server System (includes first-year software license and 3-hour online training)	4487118
Ion Reporter 1-year software license and hardware support for second and future years	ZG10SCIRLCLSRVR
Ion Reporter 1-year hardware support, for second and future years	ZG10SCIONSERVER
Ubuntu Operating System on-site upgrade by field support professional (including labor and travel)	A28867
Bioinformatics consulting plan (1 year)	ZGPCSCIONBFX
IT administration support contract (1 year)	ZGPCSCIONBFXSERV

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