


Ion 550™ Chip Kit

Catalog Numbers A34537, A34538

Pub. No. MAN0017278 Rev. A.0

 **WARNING!** Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. Safety Data Sheets (SDSs) are available from [thermofisher.com/support](https://www.thermofisher.com/support).

Note: For safety and biohazard guidelines, see the “Safety” appendix in the *Ion 550™ Kit – Chef User Guide* (Pub. No. MAN0017275). Read the Safety Data Sheets (SDSs) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves.

Product description

The Ion 550™ Chip Kit contains barcoded chips for sample tracking and sequencing of up to 200-base-read libraries using the Ion GeneStudio S5 Plus or Ion GeneStudio S5 Prime Sequencer. During sequencing, the Ion 550™ Chip detects polymerase-driven base incorporation and translates this information into digital form.

The Ion 550™ Chip offers:

- Capability to provide 100–130 million reads per sequencing run
- Support for a variety of research applications, including human exome resequencing, copy number analysis, and transcriptome sequencing
- eFuse technology providing sample tracking functionality

Note: This product is compatible with the Ion Chef™ Instrument, and Ion GeneStudio S5 Plus or Ion GeneStudio S5 Prime Sequencer workflows. Ion 550™ Chips are also compatible with the Ion S5™ XL System, but are not compatible with the Ion S5™ System, or the base model Ion GeneStudio S5 System (Cat. No. A38194).

Contents and storage

Description	Cat. No.	Quantity per kit	Storage
Ion 550™ Chip Kit (4-pack)	A34537	4 chips	15°C to 30°C
Ion 550™ Chip Kit (2 × 4-pack)	A34538	8 chips	

Precautions

Handle biological samples and all other materials according to local laboratory guidelines and regulations. Avoid cross-contamination of samples and reagents to ensure quality results.

If equipment or reagents are used in a manner that is not specified by the manufacturer, the protection that is provided by the equipment can be impaired.

IMPORTANT! Do not substitute components in this kit with components from other Ion Torrent™ chip kits. This protocol has been verified using these specific materials. Substitution can adversely affect system performance.

Note: Refer to the expiration date on the package label. Do not use chips after the expiration date.

Customer and technical support

Visit thermofisher.com/support for the latest in services and support, including:

- Worldwide contact telephone numbers
- Product support, including:
 - Product FAQs
 - Software, patches, and updates
 - Training for many applications and instruments
- Order and web support
- Product documentation, including:
 - User guides, manuals, and protocols
 - Certificates of Analysis
 - Safety Data Sheets (SDSs; also known as MSDSs)

Note: For SDSs for reagents and chemicals from other manufacturers, contact the manufacturer.

Limited product warranty

Life Technologies Corporation and/or its affiliate(s) warrant their products as set forth in the Life Technologies' General Terms and Conditions of Sale found on Life Technologies' website at www.thermofisher.com/us/en/home/global/terms-and-conditions.html. If you have any questions, please contact Life Technologies at www.thermofisher.com/support.



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Revision history: Pub. No. MAN0017278

Revision	Date	Description
A.0	5 January 2018	New Product Information Sheet for the Ion 550™ Chip Kit.

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