

Ion 550™ Kit – Chef

Catalog Number A34541

Pub. No. MAN0017277 Rev. A.0

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™ Kit – Chef (Cat. No. A34541) includes the reagents and materials that are required to use the Ion Chef™ System to prepare template-positive Ion Sphere™ Particles from up to 200-base-read libraries and load eight Ion 550™ Chips (two chips/run). The kit also includes reagents and materials to sequence eight loaded chips on an Ion GeneStudio S5 Plus Sequencer or Ion GeneStudio S5 Prime Sequencer (two sequencing runs/initialization). The Ion 550™ Kit – Chef and 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).

To provide more workflow flexibility, the Ion 550™ Chef Reagents and Ion 550™ Chef Solutions cartridges in the Ion 550™ Kit – Chef are now configured for both standard dual-chip templating runs, and single-chip templating runs. The Ion 550™ Chef Reagents and Ion 550™ Chef Solutions cartridges can be reused in a second single-chip templating run if the second run is performed within eight days of the first run.

The Ion 550™ Single Chip Supplemental Kit (Cat. No. A36953) can be ordered separately to obtain the additional single-use supplies and reagents that are required for eight single-chip templating runs and eight sequencer initializations.

Kit contents and storage

Part No.	Contents	Quantity per kit	Storage
A27755	Ion S5™ Chef Supplies, containing (per box): <ul style="list-style-type: none"> • Chip Adapter (2) • Enrichment Cartridge v2 (1) • Tip Cartridge v2 (1) • PCR Plate and Frame Seal v2 (1 each) • Recovery Station Disposable Lid v2 (2) • Recovery Tube v2 (12) 	4 boxes	15°C to 30°C
A36410	Ion 550™ Chef Solutions	4 cartridges	
A34540	Ion 550™ Chef Reagents	4 cartridges	-30°C to -10°C
A27767	Ion S5™ Sequencing Solutions <ul style="list-style-type: none"> • Ion S5™ Wash Solution (4 × 1.5 L) • Ion S5™ Cleaning Solution (250 mL) 	1 box	15°C to 30°C
A27768	Ion S5™ Sequencing Reagents	4 cartridges	-30°C to -10°C

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 not specified by the manufacturer, the protection provided by the equipment may be impaired.

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

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

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 - 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

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Revision history: Pub. No. MAN0017277

Revision	Date	Description
A.0	8 January 2018	New Product Information Sheet for the Ion 550™ Kit – Chef.

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