

IonCode™ Barcode Adapters 1153–1536 Kit

Catalog Number A44603

Pub. No. MAN0019083 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.

Product description

The IonCode™ Barcode Adapters 1153–1536 Kit provides a set of 384 unique barcode adapters that are specifically designed for use with the Ion Chef™ and Ion GeneStudio™ S5 Systems. When used in combination with other IonCode™ barcode adapters (A31173, A36546, and A44599) and the AgriSeq™ HTS Library Kit (Cat. Nos. A34143 and A34144), this kit enables users to pool up to 1536 amplicon libraries to conduct multiplexed sequencing analysis.

Multiplexing with barcoded libraries enables up to 1536 samples to be sequenced per run. Each barcode has been individually evaluated to verify no bias of sequence context representation. In addition, the barcodes have been screened for equivalent efficiency to verify balanced read depth between libraries.

See the *AgriSeq™ HTS Library Kit User Guide* (Pub. No. MAN0015971) or your Ion Torrent™ library preparation user guide for usage instructions.

Contents and storage

IonCode™ Barcode Adapters 1153–1536 Kit (Cat. No. A44603)

| Contents | Amount | Storage ^[1] |
|--|---------------------------------------|--------------------------------------|
| <ul style="list-style-type: none"> IonCode™ 1301–1396 in 96-well PCR Plate (red) IonCode™ 1401–1496 in 96-well PCR Plate (yellow) IonCode™ 1501–1596 in 96-well PCR Plate (green) IonCode™ 1601–1696 in 96-well PCR Plate (blue) | 1 set of 4 plates (25 µL per barcode) | –30°C to –5°C in an upright position |

^[1] The kit is shipped on dry ice, but store as recommended (–30°C to –5°C).

Handling and storage guidelines

- Inspect plates for damage upon arrival and again before use.
- Centrifuge plate at 1000 × g after thawing to collect contents at the bottom of the wells.

Barcode layout

The barcode layout in each plate follows the numbering scheme that is shown here.

| | | | | | | | | | | | |
|---|----|----|----|----|----|----|----|----|----|----|----|
| 1 | 9 | 17 | 25 | 33 | 41 | 49 | 57 | 65 | 73 | 81 | 89 |
| 2 | 10 | 18 | 26 | 34 | 42 | 50 | 58 | 66 | 74 | 82 | 90 |
| 3 | 11 | 19 | 27 | 35 | 43 | 51 | 59 | 67 | 75 | 83 | 91 |
| 4 | 12 | 20 | 28 | 36 | 44 | 52 | 60 | 68 | 76 | 84 | 92 |
| 5 | 13 | 21 | 29 | 37 | 45 | 53 | 61 | 69 | 77 | 85 | 93 |
| 6 | 14 | 22 | 30 | 38 | 46 | 54 | 62 | 70 | 78 | 86 | 94 |
| 7 | 15 | 23 | 31 | 39 | 47 | 55 | 63 | 71 | 79 | 87 | 95 |
| 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80 | 88 | 96 |

Before first use—Add new barcodes to the Torrent Suite™ Software

If you are using Torrent Suite™ Software version 5.12 or earlier, you must add the barcodes to the Torrent Suite™ Software.

- Contact your Thermo Fisher Scientific sales representative to obtain the CSV file for the barcodes.
- Sign in to the Torrent Suite™ Software on a computer that is connected to your Ion Chef™ System.
- Click **⚙ (Settings) > References^[1]**, then click **Barcode Sets** in the left navigation menu.
- In the **Barcode Sets** screen, click **Add new DNA Barcodes**.
- In the **Add New DNA Barcodes** dialog box, in **Barcode Set Name**, enter a descriptive name for the custom DNA barcode set.
- Click **Choose File**, select the CSV file from your local storage, then click **Open**.
- Click **Upload File**.

The custom DNA barcode set is added to the **DNA Barcodes** table in the **Barcode Sets** screen, and is now available to be used in a Planned Run. For instructions to create a Planned Run, see the *AgriSeq™ HTS Library Kit User Guide* (Pub. No. MAN0015971).

Customer and technical support

Visit thermofisher.com/support for the latest service and support information.

- Worldwide contact telephone numbers
- Product support information
 - Product FAQs
 - Software, patches, and updates
 - Training for many applications and instruments
- Order and web support
- Product documentation
 - 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 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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For descriptions of symbols on product labels or product documents, go to thermofisher.com/symbols-definition.

The information in this guide is subject to change without notice.

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Revision history: Pub. No. MAN0019083

| Revision | Date | Description |
|----------|--------------|---|
| A.0 | 8 April 2020 | New document for IonCode™ Barcode Adapters 1153–1536 Kit. |

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