IonCode[™] Barcode Adapters 1–384 Kit

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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**.

Description

The IonCode[™] Barcode Adapters 1-384 Kit provides a set of 384 unique barcode adapters specifically designed for optimal performance with the Ion PGM[™], Ion Proton[™], Ion S5[™], and Ion S5[™] XL sequencers. When used in combination with the Ion AmpliSeq[™] Library Kit 2.0, this kit enables pooling of up to 384 amplicon libraries for multiplex sequence analysis. This simplifies the Ion sequencing workflow for a wide range of applications, including targeted enrichment.

Kit contents and storage

Contents	Quantity	Storage
IonCode [™] Barcode Adapters 1–384 (3840 reactions): • IonCode [™] 0101–0196 in 96-well PCR Plate (red)	1 set of 4 plates (10 reactions per barcode)	–30°C to –5°C
 IonCode[™] 0201–0296 in 96-well PCR Plate (yellow) 		
 IonCode[™] 0301–0396 in 96-well PCR Plate (green) 		
 IonCode[™] 0401–0496 in 96-well PCR Plate (blue) 		

Handling and storage guidelines

To ensure the proper function of the IonCode[™] Barcode Adapters, handle and store the associated consumables and reagents according to the following guidelines:

- The kit is shipped on dry ice, but store under the recommended conditions (-30°C to -5°C) and in an upright position.
- 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 shown here.

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19	\mathcal{D}	17	25	33	41	49	57	65	73	81	89
2 1	0	18	26	34	42	50	58	66	74	82	90
3 (1	1	19	27	35	43	51	59	67	75	83	91
4	2)	20	28	36	44	52	60	68	76	84	92
5 1	3	21	29	37	45	53	61	69	77	85	93
6 1	4	22	30	38	46	54	62	70	78	86	94
7	5)	23	31	39	47	55	63	71	79	87	95
8 1	6	24	32	40	48	56	64	72	80	88	96

Set up a typical amplicon library barcode adapter ligation reaction

IonCode[™] Barcode Adapters are premixed with P1 Adapter, so the setup of ligation reactions is simplified.

 Starting with a 22 µL FuPa Reagent digestion reaction in a 96-well PCR plate, assemble the following ligation reaction:

Component	Volume
Switch Solution	4 µL
IonCode [™] Barcode Adapter ^[1]	2 µL
Total volume (includes 22 µL of digestion reaction)	28 µL

^[1] No mixing with P1 Adapter or diluting is necessary.

- 2. Add 2 μ L of DNA Ligase to each well (30 μ L total volume).
- **3.** Vortex thoroughly, or mix by pipetting up and down.
- Seal the reaction plate with MicroAmp[™] Clear Adhesive Film (Cat. no. 4306311) or equivalent, and incubate reactions according to the appropriate library preparation guide.
- 5. Reseal the IonCode[™] Barcode Adapter plate with adhesive film and store at -30°C to -5°C.

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
- 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

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