



PRODUCT INFORMATION

Thermo Scientific

**MuSeek Barcode Set 1, Ion Torrent™
compatible**

#K1541

1-16 barcodes, 5 rxns each (totally 80 rxns)

Lot _____ Expiry Date _____



Store at -20 °C before opening

www.thermoscientific.com/onebio

COMPONENTS OF THE KIT

Component	Amount
MuSeek Barcode Adapter Primer Mix 1	20 µL
MuSeek Barcode Adapter Primer Mix 2	20 µL
MuSeek Barcode Adapter Primer Mix 3	20 µL
MuSeek Barcode Adapter Primer Mix 4	20 µL
MuSeek Barcode Adapter Primer Mix 5	20 µL
MuSeek Barcode Adapter Primer Mix 6	20 µL
MuSeek Barcode Adapter Primer Mix 7	20 µL
MuSeek Barcode Adapter Primer Mix 8	20 µL
MuSeek Barcode Adapter Primer Mix 9	20 µL
MuSeek Barcode Adapter Primer Mix 10	20 µL
MuSeek Barcode Adapter Primer Mix 11	20 µL
MuSeek Barcode Adapter Primer Mix 12	20 µL
MuSeek Barcode Adapter Primer Mix 13	20 µL
MuSeek Barcode Adapter Primer Mix 14	20 µL
MuSeek Barcode Adapter Primer Mix 15	20 µL
MuSeek Barcode Adapter Primer Mix 16	20 µL

Additional required reagents not provided with the kit:

- **MuSeek Library Preparation Kit for Ion Torrent™ (Thermo Scientific, Inc.)**
- Agencourt® AMPure® XP PCR Purification system (Beckman Coulter, Inc.)
- 70% ethanol (required for bead purification)
- Size selection equipment [e.g. E-Gel® (Life Technologies, Inc.) system]

Rev.1

DESCRIPTION

Thermo Scientific MuSeek Barcode Set 1, Ion Torrent™ compatible, is designed for generation of high-quality barcoded genomic DNA libraries for sequencing with the Ion Personal Genome Machine™ (PGM™) system. The set provides 1-16 MuSeek Adapter Addition Primer Mixes, each allowing for addition of a unique Ion Torrent PGM™-compatible barcode sequence. This enables researchers to pool up to 16 fragment libraries prior to size selection and emulsion PCR, and then conduct multiplexed sequencing analysis. The MuSeek Barcode Set 1 in combination with Thermo Scientific MuSeek Library Preparation Kit for Ion Torrent™ allows fast and simple barcoded library construction from 100 ng of sample DNA, eliminating the need for separate shearing and adapter ligation steps.

For detailed NGS library barcoding instructions and protocol refer to the Thermo Scientific™ MuSeek Library Preparation Kit for Ion Torrent™ (Cat #K1331) product information sheet on:

www.thermoscientific.com/onebio

IMPORTANT NOTES



The MuSeek Barcode Set 1 is compatible only with the Thermo Scientific MuSeek Library Preparation Kit for Ion Torrent™ (Cat #1331)!

The MuSeek Adapter Addition Primers are only compatible with the MuA transposon sequences introduced during DNA fragmentation step using MuSeek Enzyme Mix from the MuSeek Library Preparation Kit for Ion Torrent™.



FOR SEQUENCING BARCODED LIBRARIES GENERATED WITH THIS SET, USE ONLY THE ORIGINAL SEQUENCING PRIMER PROVIDED IN THE LIFE TECHNOLOGIES ION SEQUENCING KIT!



NO SEQUENCE DATA WILL BE GENERATED BY THE ION SEQUENCING PLATFORMS IF INCORRECT PRIMER IS USED.

TECHNICAL SUPPORT

Regarding the library preparation questions please refer to:

web site: www.thermoscientific.com

support email in North America: ts.molbio@thermofisher.com

support email in Europe: ts.molbio.eu@thermofisher.com

Regarding the sequencing questions please refer to:

web site: www.iontorrent.com

Ion community: ioncommunity.iontorrent.com

support email: ionsupport@lifetech.com

phone numbers:

In North America: 1-87-SEQUENCE (1-877-378-3623)

Outside of North America: +1-203-458-8552

Designed and manufactured according to certified ISO 9001:2008 processes.

PRODUCT USE LIMITATION

This product is developed, designed and sold exclusively *for research purposes and in vitro use only*. The product was not tested for use in diagnostics or for drug development, nor is it suitable for administration to humans or animals.

Please refer to www.lifetechnologies.com for Material Safety Data Sheet of the product.

TRADEMARKS

Ion Torrent, PGM, E-Gel and Personal Genome Machine are trademarks of Life Technologies, Inc. and its subsidiaries.

Agencourt and AMPure are trademarks of Beckman Coulter, Inc. and its subsidiaries.

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