Product selection guide





| | APPLICATION | SELECT TARGETS | CONSTRUCT LIBRARY | PREPARE TEMPLATE | RUN SEQUENCE | ANALYZE DATA |
|--------------------------------------|---------------------------------|--|---|---|---|---|
| GENOMICS RESEARCH | Variant detection | Ion panels Ion AmpliSeq™ Cancer Hotspot Panel v2 Cat. No. 4475346 Ion AmpliSeq™ Comprehensive Cancer Panel Cat. No. 4477685 Community panels (order at ampliseq.com) Ion AmpliSeq™ BRCA1 and BRCA2 Research Panel* Ion AmpliSeq™ Colon and Lung Cancer Research Panel v2* Ion AmpliSeq™ TP53 Research Panel* Ion AmpliSeq™ AML Research Panel* Ion AmpliSeq™ Custom DNA Panels (order at ampliseq.com) | Ion AmpliSeq™ Library Kit 2.0 [96 LV format] Cat. No. 4480441 Ion Xpress™ Barcode Adapters 1-96 Kit Cat. No. 4474517 OPTIONAL Ion Library Equalizer™ Kit Cat. No. 4482298 Ion AmpliSeq™ Sample ID Panel Cat. No. 4479790 | Ion Chef™ System Cat. No. 4484177 AND Ion PGM™ Hi-Q™ Chef Kit Cat. No. A25948 (includes template preparation and sequencing reagents) OR Ion OneTouch™ 2 System Cat. No. 4474779 AND Ion PGM™ Hi-Q™ OT2 Kit Cat. No. A27739 | Ion PGM™ System Cat. No. 4462921 AND For use with the Ion PGM™ Hi-Q™ OT2 Kit: Ion PGM™ Hi-Q™ Sequencing Kit Cat. No. A25592 AND Any of the following Ion 314™ Chip Kit v2 BC Cat. No. 4488144 Ion 316™ Chip Kit v2 BC Cat. No. 4488150 OR For use with the Ion PGM™ Hi-Q™ Chef Kit: Ion PGM™ Hi-Q™ Chef 400 Supplies Kit Cat. No. A27293 [supplemental kit for 400-base read sequencing] AND Any of the following: Ion 314™ Chip Kit v2 BC Cat. No. 4488144 Ion 316™ Chip Kit v2 BC Cat. No. 4488149 Ion 318™ Chip Kit v2 BC Cat. No. 4488150 | Torrent Suite™ Software • Torrent Variant-Caller Plugin AND Ion Reporter™ Software |
| GENETIC DISORDERS | Quantitative gene expression | Ion AmpliSeq™ RNA Cancer Research Panel Cat. No. 4482572 Ion AmpliSeq™ RNA Apoptosis Panel Cat. No. 4482571 Ion AmpliSeq™ RNA Fusion Lung Cancer Research Panel (order at ampliseq.com) Ion AmpliSeq™ RNA Custom Panels (order at ampliseq.com) | Ion AmpliSeq™ RNA Library Kit Cat. No. 4482340 Ion Xpress™ Barcode Adapters 1-96 Kit Cat. No. 4474517 | | | Torrent Suite™ Software • Coverage Analysis Plugin AND Partek® Flow® Software |
| | Variant detection | Ion panels Ion AmpliSeq™ Inherited Disease Panel Cat. No. 4477686 Community panels (order at ampliseq.com) Ion AmpliSeq™ CFTR Research Panel* Ion AmpliSeq™ Hearing Loss Research Panel v1* Ion AmpliSeq™ Dementia Research Gene Panel* Ion AmpliSeq™ Custom DNA Panels (order at ampliseq.com) | Ion AmpliSeq [™] Library Kit 2.0 [96 LV format] Cat. No. 4480441 Ion Xpress [™] Barcode Adapters 1-96 Kit Cat. No. 4474517 OPTIONAL Ion Library Equalizer [™] Kit Cat. No. 4482298 Ion AmpliSeq [™] Sample ID Panel Cat. No. 4479790 | | | Torrent Suite™ Software • Torrent Variant-Caller Plugin AND Ion Reporter™ Software |
| | Quantitative gene expression | Ion AmpliSeq™ Custom RNA Panels (order at ampliseq.com) | Ion AmpliSeq [™] RNA Library Kit Cat. No. 4482340 Ion Xpress [™] Barcode Adapters 1-96 Kit Cat. No. 4474517 | | | Torrent Suite™ Software • Coverage Analysis Plugin AND Partek® Flow® Software |
| | Small RNA analysis | <i>mir</i> Vana™ miRNA Isolation Kit Cat. No. AM1560 | Ion Total RNA-Seq v2 Cat. No. 4475936 Ion Xpress™ RNA-Seq Barcode 1-16 Kit Cat. No. 4475485 | | | |
| PREIMPLANTATION GENOMICS RESEARCH | Aneuploidy detection | Whole genome amplification | Ion Xpress [™] Plus Fragment Library Kit Cat. No. 4471269 Ion Xpress [™] Barcode Adapters 1-96 Kit Cat. No. 4474517 | | | Torrent Suite™ Software AND Ion Reporter™ Software • Aneuploidy workflow |

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| | | SELECT TARGETS | CONSTRUCT LIBRARY | PREPARE TEMPLATE | RUN SEQUENCE | ANALYZE DATA |
| | APPLICATION | PRODUCTS | | | | |
| PLANT AND ANIMAL GENOMICS | Variant detection | Design custom panels for any reference genome using the Ion AmpliSeq™ Designer at ampliseq.com. Upload a custom reference or use one of the preloaded reference genomes: Mouse Chicken Cow Pig Sheep Chinese hamster Dog Maize Rice Soybean Tomato | Ion AmpliSeq™ Library Kit 2.0 [96 LV format] Cat. No. 4480441 Ion Xpress™ Barcode Adapters 1-96 Kit Cat. No. 4474517 OPTIONAL Ion Library Equalizer™ Kit Cat. No. 4482298 | Ion Chef™ System Cat. No. 4484177 AND Ion PGM™ Hi-Q™ Chef Kit Cat. No. A25948 (includes template preparation and sequencing reagents) OR Ion OneTouch™ 2 System Cat. No. 4474779 AND Ion PGM™ Hi-Q™ OT2 Kit Cat. No. A27739 | Ion PGM™ System Cat. No. 4462921 AND For use with the Ion PGM™ Hi-Q™ 0T2 Kit: Ion PGM™ Hi-Q™ Sequencing Kit Cat. No. A25592 AND Any of the following Ion 314™ Chip Kit v2 BC Cat. No. 4488144 Ion 316™ Chip Kit v2 BC Cat. No. 4488150 OR For use with the Ion PGM™ Hi-Q™ Chef Kit: Ion PGM™ Hi-Q™ Chef 400 Supplies Kit Cat. No. A27293 (supplemental kit for 400-base read sequencing) AND Any of the following: Ion 314™ Chip Kit v2 BC Cat. No. 4488144 Ion 316™ Chip Kit v2 BC Cat. No. 4488149 Ion 318™ Chip Kit v2 BC Cat. No. 4488150 | Torrent Suite™ Software • Torrent Variant-Caller Plugin |
| MICROBIAL GENOMICS | Discovery and characterization | | For mate-pair sequencing: Ion TrueMate™ Plus Library Kit Cat. No. A25656 For whole genome sequencing: Ion Xpress™ Plus Fragment Library Kit Cat. No. 4471269 OR Thermo Scientific® MuSeek™ Library Preparation Kit Cat. No. 4480829 OPTIONAL Ion Xpress™ Barcode Adapters 1-96 Kit Cat. No. 4474517 | | | Torrent Suite™ Software • Assembler Plugin • Assembler SPAdes v3.1 Plugin DNASTAR® Lasergene® Genomics Suite |
| | Metagenomics • | lon 16S™ Metagenomics Kit Cat. No. A26216 | Ion Xpress™ Plus Fragment Library Kit Cat. No. 4471269 OR Thermo Scientific® MuSeek™ Library Preparation Kit Cat. No. 4480829 OPTIONAL Ion Xpress™ Barcode Adapters 1-96 Kit Cat. No. 4474517 | | | Torrent Suite™ Software AND Ion Reporter™ Software • 16S™ Metagenomics workflow |
| | Bacterial typing research | | For use with Ion 16S™ Metagenomics Kit Ion Universal Library Quantitation Kit Cat. No. A26217 | | | Torrent Suite™ Software • Pathogen Analyzer Plugin Ridom™ SeqSphere+™ Software |
| | Viral typing research | PathAmp [™] FluA Reagents Cat. No. 4485019 | | | | Torrent Suite™ Software • Pathogen Analyzer Plugin |

