

Product selection guide



	SELECT TARGETS	CONSTRUCT LIBRARY	PREPARE TEMPLATE	RUN SEQUENCE	ANALYZE DATA
APPLICATION	PRODUCTS				
EXOME SEQUENCING Ion AmpliSeq™ Exome Multiplex PCR-based exome enrichment ●	Enrich for exomes with just 50ng of genomic DNA Ion AmpliSeq™ Exome RDY Kit 1x8 Cat. No. A27192 OR Ion AmpliSeq™ Exome RDY Kit 4x2 Cat. No. A27193	Ion AmpliSeq™ Library Kits included in Ion AmpliSeq™ Exome Kits Check quality and quantity of dsDNA Qubit™ 3.0 NGS Starter Kit Cat. No. Q33218 (Includes Qubit™ 3 Fluorometer, Qubit™ dsDNA HS Assay Kit, and Qubit™ Assay Tubes) OPTIONAL MULTIPLEXED SEQUENCING Ion Xpress™ Barcode Adapters 1–16 Kit Cat. No. 4471250	Ion Chef™ Instrument Cat. No. 4484177 AND Ion PI™ Hi-Q™ Chef Kit Cat. No. A27198 OR Ion OneTouch™ 2 Instrument Cat. No. 4474779 AND Ion PI™ Hi-Q™ OT2 200 Kit Cat. No. A26434	Ion PI™ Chip Kit v3 included in Ion AmpliSeq™ Exome Kits Ion Proton™ System Cat. No. 4476610 AND For use with Ion OneTouch™ 2 System Ion PI™ Hi-Q™ Sequencing 200 Kit Cat. No. A26433 OR For use with Ion Chef™ System (Sequencing reagents are provided as part of the Ion PI™ Hi-Q™ Chef Kit) Ion PI™ Chip Kit v3 (BC), 8-pack Cat. No. A26771 (Included in Ion AmpliSeq™ Exome Kit)	Torrent Suite™ Software AND Ion Reporter™ Software OR Ion Reporter™ Server
	Ion TargetSeq™ Exome Hybridization-based exome enrichment ●	For FFPE samples and sequencing of coding and noncoding regions of the genome Ion TargetSeq™ Exome Kit Cat. No. 4477742	Ion Xpress™ Plus Fragment Library Kit Cat. No. 4471269 Check quality and quantity of dsDNA Qubit™ 3.0 NGS Starter Kit Cat. No. Q33218 (Includes Qubit™ 3 Fluorometer, Qubit™ dsDNA HS Assay Kit, and Qubit™ Assay Tubes) OPTIONAL MULTIPLEXED SEQUENCING Ion Xpress™ Barcode Adapters 1–16 Kit Cat. No. 4471250	Ion Proton™ System Cat. No. 4476610 AND For use with Ion OneTouch™ 2 System Ion PI™ Chip Kit v3 (BC), 8-pack Cat. No. A26771 Ion PI™ Hi-Q™ Sequencing 200 Kit Cat. No. A26433 OR For use with Ion Chef™ System (Sequencing reagents are provided as part of the Ion PI™ Hi-Q™ Chef Kit) Ion PI™ Chip Kit v3 (BC), 8-pack Cat. No. A26771	
TARGETED SEQUENCING Ion AmpliSeq™ Panels Multiplexed targeted sequencing ●	Highly multiplexed target selection with all-exon coverage of 409 genes implicated in cancer research Ion AmpliSeq™ Comprehensive Cancer Panel Cat. No. 4477685	Ion AmpliSeq™ Kit for Chef DL8, 32 rxns Cat. No. A29024 OR Ion AmpliSeq™ Library Kit 2.0 Cat. No. 4475345 OPTIONAL Ion Library Equalizer™ Kit Cat. No. 4482298 Ion AmpliSeq™ Sample ID Panel Cat. No. 4479790 MULTIPLEXED SEQUENCING Ion Xpress™ Barcode Adapters 1–16 Kit Cat. No. 4471250			

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TRANSCRIPTOME SEQUENCING	Whole transcriptome RNA-Seq	<p>For selective depletion of up to 99.9% of ribosomal RNA from total RNA</p> <p>RiboMinus™ Eukaryote System v2 Cat. No. A15026</p> <p>OR</p> <p>Low Input RiboMinus™ Eukaryote System v2 Cat. No. A15027</p> <p>OPTIONAL</p> <p>Sample controls</p> <p>Spike-in references to control for sample variability</p> <p>ERCC RNA Spike-In Mix Cat. No. 4456740</p>	<p>For preparation of representative cDNA libraries for strand-specific RNA sequencing</p> <p>Ion Total RNA-Seq Kit v2 Cat. No. 4475936</p> <p>Or for less hands-on time</p> <p>Ion Total RNA-Seq Kit for AB Library Builder™ System Cat. No. 4482416</p> <p>AND</p> <p>Ion Total RNA Library Protocol Card for AB Library Builder™ System Cat. No. 4482563</p> <p>OPTIONAL</p>	<p>Ion Chef™ Instrument Cat. No. 4484177</p> <p>AND</p> <p>Ion PI™ Hi-Q™ Chef Kit Cat. No. A27198</p> <p>OR</p> <p>Ion OneTouch™ 2 Instrument Cat. No. 4474779</p> <p>AND</p> <p>Ion PI™ Hi-Q™ OT2 200 Kit Cat. No. A26434</p>	<p>Ion Proton™ System Cat. No. 4476610</p> <p>AND</p> <p>For use with Ion OneTouch™ 2 System</p> <p>Ion PI™ Chip Kit v3 (BC), 8-pack Cat. No. A26771</p> <p>Ion PI™ Hi-Q™ Sequencing 200 Kit Cat. No. A26433</p> <p>OR</p> <p>For use with Ion Chef™ System</p> <p>(Sequencing reagents are provided as part of the Ion PI™ Hi-Q™ Chef Kit)</p> <p>Ion PI™ Chip Kit v3 (BC), 8-pack Cat. No. A26771</p>	<p>Torrent Suite™ Software (Coverage analysis plugin)</p> <p>AND</p> <p>Partek™ Flow™ Software</p>	
	mRNA-Seq	<p>For rapid isolation of pure, intact polyadenylated mRNA for sequencing of coding RNA</p> <p>Dynabeads™ mRNA DIRECT™ Micro Kit Cat. No. 61021</p> <p>OPTIONAL</p> <p>Sample controls</p> <p>Spike-in references to control for sample variability</p> <p>ERCC RNA Spike-In Mix Cat. No. 4456740</p>	<p>MULTIPLEXED SEQUENCING</p> <p>Ion Xpress™ RNA-Seq Barcode 1–16 Kit Cat. No. 4475485</p> <p>Check quality and quantity of RNA</p> <p>Qubit™ 3 Fluorometer Cat. No. Q33216</p> <p>AND</p> <p>Qubit™ RNA HS Assay Kit Cat. No. Q32852</p>				
	Targeted RNA-Seq	<p>Ion AmpliSeq™ Transcriptome Human Gene Expression Kit Cat. No. A26035</p>	<p>Ion AmpliSeq™ RNA Library Kit, 8 rxns Cat. No. 4482335</p> <p>Ion AmpliSeq™ RNA Library Kit, 96 rxns Cat. No. 4482340</p> <p>Ion AmpliSeq™ RNA Library Kit, 384 rxns Cat. No. 4482752</p> <p>OPTIONAL</p> <p>MULTIPLEXED SEQUENCING</p> <p>Ion Xpress™ Barcode Adapters 1–16 Kit Cat. No. 4471250</p>			<p>Torrent Suite™ Software</p> <p>AND</p> <p>Ion AmpliSeq™ RNA plugin</p> <p>AND</p> <p>Partek™ Flow™ or Bioconductor Software</p>	

For help with technical issues, visit the Ion Community portal at thermofisher.com/ioncommunity