Decision Tree for RNA Sequencing on the Ion PGM™ System

Sample Preparation

Library Preparation

Template Preparation

Sequencing
Use the Ion 314™, Ion 316™, or Ion 318™ Chip, based on your application

Amplicon sequencing — **Application** — **Total RNA sequencing**

Primers
- Custom pools
- Ready-to-use panels

Ion AmpliSeq™ Designer at www.ampliseq.com

Ion AmpliSeq™ RNA Apoptosis Panel (4482571)
Ion AmpliSeq™ RNA Cancer Panel (4482572)

Ion AmpliSeq™ RNA Library Kit (4482335, 4482340, 4482752)

Barcoding — NO / YES

Ion Xpress™ Barcode Adapters 1-96 (4474517 or various cat. nos. for sets of 16)

Whole transcriptome RNA

Small RNA

External controls — YES / NO

Ambion® ERCC ExFold RNA Spike-In Mix (4456739)
Ambion® ERCC RNA Spike-In Mix (4456740)

rRNA removal/ mRNA isolation
- mRNA isolation
- rRNA removal
- Neither

mRNA DIRECT™ Micro Kit (61021)
MicroPoly(A)Purist™ Kit (AM1919)

RiboMinus™ Eukaryote System v2 (A15026, A15027)

Library prep method
- Automated
- Manual

Ion Total RNA-Seq Kit for AB Library Builder™ System (4482416)

Ion Total RNA-Seq v2 (4475936, 4479789)

Barcoding — YES / NO

Ion Xpress™ RNA-Seq Barcode 01-16 Kit (4475485)

Ion PGM™ Template OT2 200 Kit (4480974)

Ion PGM™ Sequencing 200 Kit v2 (4482006)