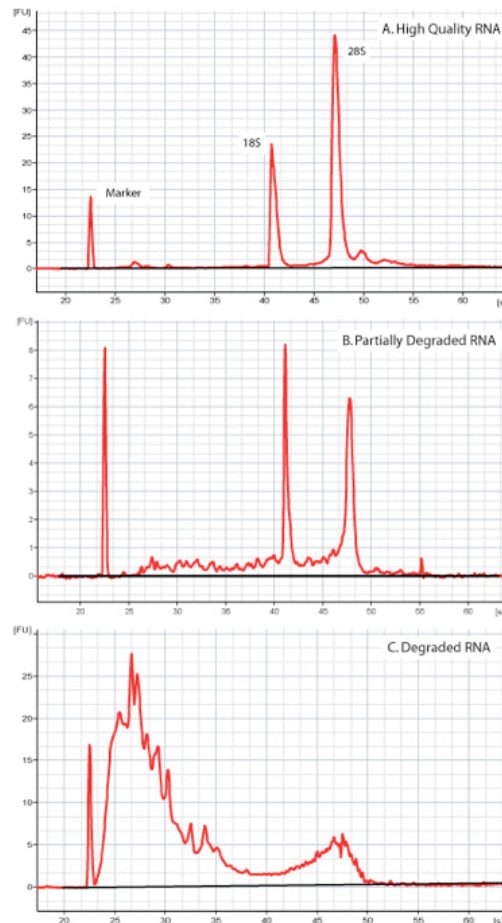


RNA Extraction and Quality Assessment guidelines:

1. For RNA samples, we recommend the mirVana extraction kit from Ambion (<http://www.ambion.com/catalog/CatNum.php?1560>). In the protocol, there are two paths, one for total RNA and one for microRNAs. We recommend this kit for both—just follow the correct path for your sample. RNA extraction can be very organism specific so please use your own lab protocols if they have yielded high quality RNA in the past.
2. Please perform DNase treatment on RNA samples. Resuspend final RNA samples in Nuclease-free water or DEPC-water.
3. Check RNA sample integrity on an Agilent Bioanalyzer (see sample traces below) to check RNA integrity. RINs should be >7 . Alternatively, if a bioanalyzer is not available, please run the RNA samples on an RNA gel to confirm the integrity of rRNA peaks.



4. Measure RNA concentration with a fluorescence based measurement such as a Qubit or picogreen assay. These measurements tend to be specific for RNA and are preferable to nanodrop or other UV based measurements which also measure contaminating genomic DNA. If your lab does not have a way of making a fluorescent based measurement, please measure with whatever method is available and indicate this information when submitting your sample. For nanodrop measurements:

UV absorption: 260/280 >1.9 and 260/230 >2.0
Concentration: >500ng/uL

RNA requirements for different library types:

The following are minimum RNA requirements for library construction. You are always encouraged to submit more than the recommended amount.

Sequencing Platform	Library type	Minimum RNA amount
Illumina/ Solid/ Ion Torrent	Whole Transcriptome	5 ug
Illumina/ Solid	rRNA depleted	10 ug
Illumina/ Solid	polyA	10 ug
Illumina/ Solid	DSN only	200 ng
Illumina/ Solid	Linear Amplication	10 ng
All platforms	*small RNA	5-20 ug
Ion Torrent	polyA	15-20 ug
Ion Torrent	rRNA depleted	15-20 ug

** Please contact us regarding small RNA seq. Different RNA amounts are required for different platforms.*



All RNA samples must be dissolved in RNase free water and shipped frozen on dry ice to the following address:

Cofactor Genomics
Attn: Sample Submission
3141 Olive Street
St Louis, MO 63103

Packages are accepted Monday through Friday between the hours of 8am-5pm (except holidays).