

# RNA-Sequencing (RNA-Seq), Transcriptome

**Turn Around Time:** 4 – 6 weeks; RNA extraction and optimization will require an additional 1 – 2 weeks

## TEST DESCRIPTION

Determination of the presence and quantity of RNA transcripts in relative levels between control and experimental samples.

## SAMPLE REQUIREMENTS

**Isolated total RNA:** from 250ng to 1ug, quality and quantity of RNA will be verified in house prior to initiation of library preparation.

**Low input RNA\*\* coming in the next 6 months:** Total RNA 10pg to 100ng or low cell numbers (1000 to 10000 cells), cells cannot be stored in fixative.

**Cells or Fresh Frozen Tissue \*\* available with consultation:** RNA extraction methods may be available for your cell or tissue type.

**FFPE \*\* available with consultation within the next 12 months.**

**Specimen Type:** Completed library prep.

**Specimen Requirements:** Sample numbers, adaptor sequence.

**Shipping Conditions:** Dry ice (-80°C), overnight.

## TEST METHODOLOGY

Stranded mRNA sequencing = input total RNA quality control with fragment analysis and quantification, library preparation (with polyA enrichment or ribosomal depletion to obtain the mRNA fraction), Illumina sequencing, 2x125bp reads (paired end). Recommended sequencing at 50 million reads per sample.

## LIMITATIONS

PolyA enrichment of RNA will eliminate lncRNA and miRNAs that do not have polyA tails.

## Contact & Submission

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