

## Don't settle for half the story. Get more answers with less sample!

There is a current need to perform highly multiplexed molecular testing to assess RNA expression from a variety of sample types, including: formalin-fixed, paraffin-embedded (FFPE) tissue, biofluids, cell lysates, and extracted RNA. A limitation to gene expression profiling for molecular researchers is the difficulty of nucleic acid extraction from small and sometimes highly degraded samples. In the case of biofluids, large amounts of this sample type are required to produce enough isolated RNA to test by traditional methods. HTG Molecular Diagnostics (HTG) has developed the HTG EdgeSeq assays, a coupling of RNA extraction-free, nuclease protection assay with next-generation sequencing (NGS) quantification to overcome these limitations.

Sample to answer in as little as 36 hours: HTG's simplified NGS-based workflow requires little hands-on time.



HTG EdgeSeq Chemistry reduces sample input requirements preserving valuable specimens.



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\*Research Use Only (RUO)

## Advantages

- Extraction-free  
*Lysis only workflow*  
*Eliminate extraction bias*
- NGS-based detection  
*Broad dynamic range and sensitivity*  
*Compatible with both Illumina MiSeq and Thermo Fisher Ion Torrent sequencers*
- Low sample input  
*Single 5 µm FFPE section*  
*15 µl of serum, plasma, urine, or CSF*
- Data and workflow  
*Sample to answer in as little as 36 hours*  
*Aligned with differential expression analysis*

## Services

### RUO\* assays offered by VERI/O Laboratory Services

<b>HTG EdgeSeq ALKPlus Assay</b>	ALK rearrangement status and ROS1, RET, NTRK1, cMET, HER2 data
<b>HTG EdgeSeq Custom Assay Design</b>	Specialized service to meet your individual project goals
<b>HTG EdgeSeq DLBCL Cell of Origin Assay</b>	Subtype diffuse large B-cell lymphoma samples (ABC vs. GCB)
<b>HTG EdgeSeq Precision Immuno-Oncology Panel (PIP)</b>	Characterize tumor microenvironment and immune response
<b>HTG EdgeSeq miRNA Whole Transcriptome Assay (WTA)</b>	2,083 miRNA human transcripts
<b>HTG EdgeSeq Oncology Biomarker Panel (OBP)</b>	2,560 genes, 24 groups, and pathways
<b>HTG EdgeSeq Pan B-Cell Lymphoma Panel</b>	Characterize indolent and aggressive lymphoma subtypes
<b>HTG EdgeSeq Immune Response Panel (IR)</b>	Analyze genes associated with immune response to infection and autoimmune disease

## Sample Inputs

Sample Type	Recommended Input	HTG EdgeSeq miRNA WTA	HTG EdgeSeq OBP	HTG EdgeSeq IR	HTG EdgeSeq PIP Assay
Plasma / Serum	≥15 µl	✓	Due to the prevalence of RNase in acellular samples, RNA can be deteriorated & severely fragmented		
PAXGene	500 µl	✓	✓	✓	✓
FFPE	One 5 µm section	✓	✓	✓	✓
Extracted RNA from FFPE	35 ng / 35 µl, respectively	✓	✓		✓
Extracted RNA from Frozen	10 - 35 ng	✓	✓		
Cells	≥ 3,000	✓	✓		

**For Research Use Only. Not for use in diagnostic procedures.**  
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HTG EdgeSeq System & Chemistry