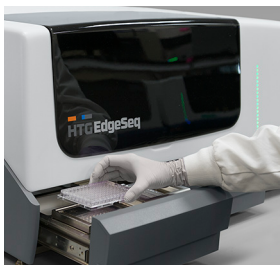


Sample to answer in as little as 36 hours: HTG's simplified NGS-based workflow requires little hands-on time.



HTG EdgeSeq Chemistry reduces sample input requirements preserving valuable specimens.



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*Research Use Only (RUO)

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.

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

HTG EdgeSeq ALKPlus Assay	ALK rearrangement status and ROS1, RET, NTRK1, cMET, HER2 data
HTG EdgeSeq Custom Assay Design	Specialized service to meet your individual project goals
HTG EdgeSeq DLBCL Cell of Origin Assay	Subtype diffuse large B-cell Lymphoma samples (ABC vs. GCB)
HTG EdgeSeq EGFR, KRAS, BRAF Mutation Assay	HTG EdgeSeq DNA chemistry
New	
HTG EdgeSeq Immuno-Oncology Assay (I/O)	549 genes implicated in the host immune response to tumors
HTG EdgeSeq miRNA Whole Transcriptome Assay (WTA)	2,083 miRNA human transcripts
HTG EdgeSeq Oncology Biomarker Panel (OBP)	2,560 genes, 24 groups, and pathways
HTG EdgeSeq PATH Assay	Multiplexed gene expression complement to IHC testing
New	

Sample Inputs

Sample Type	Recommended Input	HTG EdgeSeq miRNA WTA	HTG EdgeSeq OBP	HTG EdgeSeq PATH Assay	HTG EdgeSeq I/O 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