

Research applications:

- Preclinical disease modeling
- Elucidation of molecular mechanisms of tumorigenesis
- Compound screening and therapeutic response
- Developing mouse mRNA biomarker signatures



Product Overview

Measure 1,659 mouse mRNA targets in one RNA extraction-free assay. The HTG EdgeSeq Mouse mRNA Tumor Response Panel leverages the sensitivity and dynamic range of next-generation sequencing (NGS) to measure genes implicated in preclinical mouse models of human disease.

Built around core signaling pathways and immune response mechanisms in oncology and other disease states, the HTG EdgeSeq Mouse mRNA Tumor Response Panel enables multiplex profiling from a variety of sample types, including a single section of formalin-fixed, paraffin-embedded (FFPE) tissue, cell lines, and extracted RNA samples. Applications include modeling oncogenesis, studying the immune response to mouse and patient-derived xenografts, and investigational therapeutic response studies. HTG's extraction-free HTG EdgeSeq assays are automated on the HTG EdgeSeq system or can be run in HTG's VERI/O service laboratory.

Features and Benefits

- Measure 1,659 transcripts in a single well:
obtain a broad profile of genes associated with oncology, immunity, and inflammation
- Extraction-free chemistry:
the simple workflow reduces extraction-associated data bias and sample loss
- Low sample input:
reliable, reproducible performance from a single section of FFPE tissue
- Simplified data analysis:
analyze results in the HTG EdgeSeq Reveal Data Suite, not a complicated RNASeq pipeline

Panel Includes Key Drug Targets

AKT	FGFR1	MTOR	PI3K
CD19	FGFR2	NOTCH1	
CTLA4	IGFR1	NOTCH2	
EGFR	IGFR2	NOTCH3	

Ordering Information

	Catalog Number	Product Name
Illumina	916-010-208	HTG EdgeSeq Mouse mRNA Tumor Response Panel (2x8)
	916-010-008	HTG EdgeSeq Mouse mRNA Tumor Response Panel (4x8)
	916-010-224	HTG EdgeSeq Mouse mRNA Tumor Response Panel (1x24)
	916-010-024	HTG EdgeSeq Mouse mRNA Tumor Response Panel (4x24)
	916-010-096	HTG EdgeSeq Mouse mRNA Tumor Response Panel (1x96)
Thermo Fisher Ion Torrent S5	916-010-308	HTG EdgeSeq Mouse mRNA Tumor Response Panel (2X8)
	916-010-108	HTG EdgeSeq Mouse mRNA Tumor Response Panel (4X8)
	916-010-324	HTG EdgeSeq Mouse mRNA Tumor Response Panel (1X24)
	916-010-124	HTG EdgeSeq Mouse mRNA Tumor Response Panel (4X24)
	916-010-196	HTG EdgeSeq Mouse mRNA Tumor Response Panel (1X96)

- Extraction-free and automated workflow on the HTG EdgeSeq system
- One assay provides 1,659 gene expression data points



Sample Requirements

FFPE Tissue	5 µm tissue section
Cells	≥3,000 cells
Extracted RNA from FFPE Tissue	35 ng
Extracted RNA from Frozen Tissue	10-35 ng

Partner with HTG

HTG EdgeSeq System

HTG offers automated workflow solutions for molecular profiling that can be deployed in your laboratory to help address the unique needs and challenges through every step of your projects.

VERI/O Laboratory Services

VERI/O Laboratory Services support biomarker research using HTG's extraction-free technology and growing portfolio of profiling assays. Results are provided for retrospective samples and are not for use in diagnostic procedures.

HTG Qualified Service Providers

HTG has partnered with several qualified service provider laboratories that can process your samples using HTG EdgeSeq systems and assays. Visit www.htgmolecular.com/qsp for a complete list of HTG Qualified Service Providers.

Learn More

The HTG EdgeSeq system has a number of key advantages, including multiplexing from tens to thousands of biomarkers in a single sample; very low sample input requirements; simple, extraction-free sample preparation; automated workflow; and simplified data output.

The HTG EdgeSeq system is a powerful solution providing gene expression profiling results for researchers, laboratory staff, and biomarker leads pursuing discovery, translational medicine, and other oncology applications.

For more information contact HTG Molecular Diagnostics at 1-877-289-2615, info@htgmolecular.com or contact your local HTG Molecular Diagnostics representative. Visit www.htgmolecular.com