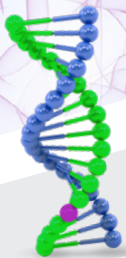




# Colon Cancer Mutation Profiling



## Conquer Sample Limitations In Colon Cancer Testing

Reliable detection of low abundance somatic mutations in colorectal cancer samples can be challenging due to the small specimen size and low percentage of tumor cells. New testing guidelines recommend expanded *RAS* and *RAF* genotyping, further constraining the limited specimens due to the increased number of targets.

### AGENA'S SOLUTION

➤ **UltraSEEK™ Colon Panel**

Enables study of disease progression and resistance from CTCs and ctDNA, detecting over 100 variants from a single blood draw at as low as 0.1% minor allele frequency (MAF).<sup>1</sup>

➤ **iPLEX® HS Colon Panel**

Facilitates variant detection across 86 variants, as low as 1% MAF from poor quality and degraded samples such as FFPE tissue and cytology blocks.<sup>2</sup>

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Not for use in diagnostic procedures.

## Genes & Mutations for Colon Panels

Pre-designed panels for the identification of prognostic and therapeutic markers across 5 genes for comprehensive profiling of colon cancer.

Gene	Coverage*	# of Variants	
		UltraSEEK Colon Panel	iPLEX HS Colon Panel
BRAF	Codons 469 (exon 11), 594, 600 (exon 15)	5	3
EGFR	Extracellular domain mutations in exon 12	10	2
KRAS	Codons 12, 13 (exon 2), 59, 61 (exon 3), 117 and 146 (exon 4)	48	47
NRAS	Codons 12, 13 (exon 2), 59, 61 (exon 3), 117 and 146 (exon 4)	40	30
PIK3CA	Codons 542, 545 (exon 9) and 1047 (exon 20)	4	4
<b>Total Variants</b>		<b>107</b>	<b>86</b>

\* Complete variant list available upon request

## ASSAY WORKFLOW

DNA to data in as little as 8 hours with minimal manual processing time enables greater lab efficiency. Simplified reporting with automated software generates clear results.

## ORDERING INFORMATION

Catalog No.	Item	Sample Type	# Samples	Chip Format
13142F	Complete UltraSEEK Colon Panel Set	Plasma	32	96
13144F	Complete UltraSEEK Colon Panel Set	Plasma	80	96
13150	Complete UltraSEEK Colon Panel Set	Plasma	32	384
13151	Complete UltraSEEK Colon Panel Set	Plasma	80	384
13130F	Complete iPLEX HS Colon Panel Set	Tissue	48	96
13132F	Complete iPLEX HS Colon Panel Set	Tissue	120	96
13134	Complete iPLEX HS Colon Panel Set	Tissue	48	384
13135	Complete iPLEX HS Colon Panel Set	Tissue	120	384

The panel sets contain assay specific primers and all the required reagents to process DNA samples on the MassARRAY system.

## References

1. R. Avula et al. Assessment of UltraSEEK Colon Cancer Panel for Detection of Low Frequency Somatic Mutations in Blood. Poster session presented at: Association of Molecular Pathology Annual Meeting; 2017 Nov 16-18; Salt Lake City, UT.
2. R.T. Birse, D. Irwin. Reliable Detection of Low Abundance Somatic Mutations of EGFR, KRAS, BRAF, NRAS and PIK3CA in Metastatic Colorectal Adenocarcinomas Using iPLEX HS, a New Highly Sensitive Assay for MassARRAY. Poster session presented at Association of Molecular Pathology Annual Meeting; 2016 Nov 10-12; Charlotte, NC.

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