ONCOLOGY

Variant Detection in Melanoma Cancer

Uncover More in Melanoma Research

Technology limitations often force a compromise between the number of targets that can be simultaneously surveyed and the ability to detect variants that are present at low frequencies.[1] The MassARRAY technology enables both in a rapid and cost-effective manner.[2]

AGENA'S SOLUTION

- **UltraSEEK® Melanoma Panel (RUO)**

  Enables research studies from CTCs and ctDNA across 61 variants, detected at as low as 0.1% variant allele frequency (VAF).

- **iPLEX® HS Melanoma Panel (RUO)**

  Detects over 100 variants at as low as 1% VAF from poor quality and degraded samples such as FFPE tissue, smears, fine needle aspirates and core needle biopsies.

Agena® BIOSCIENCE

Genes & Variants for Melanoma Research Panels

UltraSEEK Melanoma (RUO)	
Gene	# of Variants*
BRAF	13
CDKN2A	1
CTNNB1	4
IDH1	2
KIT	7
MAP2K1	7
NRAS	19
RAC1	1
RPS27	1
RQCD1	1
SDHD	3
YAE1D1	2
Total Variants	**61**

iPLEX HS Melanoma (RUO)	
Gene	# of Variants*
BRAF	25
GNA11	3
GNAQ	2
HRAS	2
KIT	32
KRAS	5
NRAS	28
PTEN	6
RAC1	1
RPS27	1
TERT	2
Total Variants	**107**

** 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. Software is designed to simplify data analysis.

ORDERING INFORMATION

Catalog No.	Item	Sample Type	# Samples	Chip Format
13265F	UltraSEEK Melanoma Panel (RUO) Set – CPM (5x96)	Plasma	40	CPM 96
13268F	iPLEX HS Melanoma Panel (RUO) Set – CPM (5x96)	Tissue	60	CPM 96
13336D	iPLEX HS Melanoma Panel (RUO) Set – CPM (2x384)	Tissue	96	CPM 384
13337D	iPLEX HS Melanoma Panel (RUO) Set – CPM (10x384)	Tissue	480	CPM 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.

For Research Use Only. Not for use in diagnostic procedures.

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