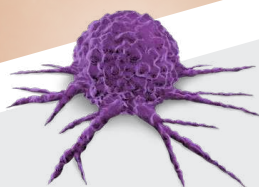




Melanoma Variant Profiling



Uncover More in Melanoma Testing

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 in low frequencies.¹ The MassARRAY technology enables both in a rapid and cost-effective manner.²

AGENA'S SOLUTION

> **UltraSEEK® Melanoma Panel**

Enables the study of disease progression and resistance from CTCs and ctDNA across 61 clinically relevant variants, detected at as low as 0.1% minor allele frequency (MAF).

> **iPLEX® HS Melanoma Panel**

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

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

Genes & Mutations for Melanoma Panels

| UltraSEEK Melanoma | |
|-----------------------|----------------|
| 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 | |
|-----------------------|----------------|
| 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. Simplified reporting with automated software generates clear results.

ORDERING INFORMATION

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

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