



## Variant Detection with OncoFOCUS™



### Identify Key Somatic Variants in Solid Tumors

Current technologies for solid tumor profiling either test only a handful of variants from individual genes, or require lengthy laboratory workflows and complex bioinformatics to detect variants across multiple genes.<sup>1,2</sup>

Agena Bioscience offers the OncoFOCUS™ Panel v3, a comprehensive solution for detecting over 200 variants with a simple 8-hour workflow. The assays identify key somatic variants in *BRAF*, *EGFR*, *KIT*, *KRAS*, and *NRAS* genes. Identifying variants present in research samples is fast, with simple and user-friendly data output.

#### The Agena Bioscience® Solution

- Increase research laboratory efficiency with a focused multi-gene panel
- Achieve robust data with  $\geq 5\%$  variant allele frequency
- Reduce turnaround time, generating data in as fast as a day
- Use as little as 20 ng of input DNA

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

## Genes & Variants

Gene	Coverage	# of Variants
<i>BRAF</i>	Substitutions and deletions in codon 469 of exon 11; codons 594, 597, 600, 601 of exon 15	25
<i>EGFR</i>	Substitutions, insertions, and deletions across exons 18, 19, 20, and 21. Includes key mutations such as L858R, L861Q, and T790M	125
<i>KIT</i>	Substitution mutations in exons 11, 13, and 17	6
<i>KRAS</i>	Substitution mutations across codons 12, 13 of exon 2; codons 59, 61 of exon 3; codons 117, 146 of exon 4	43
<i>NRAS</i>	Substitution mutations across codons 12, 13 of exon 2; codons 59, 61 of exon 3; codons 117, 146 of exon 4	31

## 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

The OncoFOCUS Panel v3 set is available for use on the MassARRAY® System with Chip Prep Module, in 96- or 384-format. The panel set contains primers and all required reagents to process DNA samples on the MassARRAY System.

Catalog No.	Item	Sample Type	# Samples	Chip Format
13158F	OncoFOCUS Panel v3 Set – CPM (10x96)	Tissue	80	96 CPM
13159D	OncoFOCUS Panel v3 Set – CPM (10x384)	Tissue	320	384 CPM
13158	OncoFOCUS Panel v3 Set (10x96)	Tissue	80	96
13159	OncoFOCUS Panel v3 Set (10x384)	Tissue	320	384

## References

1. Kriegsmann, Mark, et al. Detection of KRAS, NRAS and BRAF by mass spectrometry-a sensitive, reliable, fast and cost-effective technique. *Diagnostic pathology* 10.1 (2015)
2. Giannini, Riccardo, et al. EGFR and KRAS mutational analysis in a large series of Italian non-small cell lung cancer patients: 2,387 cases from a single center. *Oncology Reports* 36.2 (2016): 1166-1172.

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