



Variant Detection in Breast Cancer



Highly Sensitive Detection of *PIK3CA* variants

Phosphatidylinositide-3-kinases (PI3K) comprise a family of lipid kinases that are often associated with cell proliferation and apoptosis. Research has demonstrated the impact that *PIK3CA* gene mutations have on these processes in breast cancer.

The Agena Bioscience® Solution

- Detect variants as low as 1% variant allele frequency.
- Utilize a variety of sample sources, including formalin-fixed, paraffin embedded tissue with less than 10% tumor burden.¹
- Obtain results quickly and at a low cost.

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

Genes & Variants

Pre-designed panel for the identification of variants across the *PIK3CA* gene.

Gene	Variants
PIK3CA	p.C420R
	p.E542K, p.E542Q
	p.E545K, p.E545Q, p.E545A, p.E545G, p.E545V, p.E545D (G>T and G>C)
	p.Q546K, p.Q546E, p.Q546P, p.Q546R, p.Q546L
	p.H1047N, p.H1047Y, p.H1047P, p.H1047R, p.H1047L
Total Variants:	20

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 assay panel set is available for use on the MassARRAY® System with Chip Prep Module in 96-format. The panel set contains assay-specific primers and all the required reagents to process DNA samples on the MassARRAY System.

Catalog No.	Item	Sample Type	# Samples	Chip Format
13316F	PIK3CA Breast Panel (RUO) Set - CPM (5x96)	Tissue	160	CPM-96

References

1. AH Box et. al. Evaluation of a Mass Spectrometry-Based PIK3CA Mutation Assay for Predictive Breast Cancer Therapeutic Decision Making. Poster session presented at: Association of Molecular Pathology Annual Meeting; 2020

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