

qBiomarker Somatic Mutation PCR Array

Human Oncogene and Tumor Suppressor Panel 384HT

Cat. no. 337021 SMH-3003A(F/R)E

For real-time PCR-based, pathway-focused,
somatic mutation profiling

Format	For use with the following real-time cyclers
Format E, with ROX™	Applied Biosystems® models 7900HT (384-well block), ViiA™ 7 (384-well block); Bio-Rad CFX384™
Format G, with ROX	Roche® LightCycler® 480 (384-well block)



Sample & Assay Technologies

Description

The Human Oncogene and Tumor Suppressor Panel qBiomarker Somatic Mutation PCR Array is a translational research tool that allows rapid, comprehensive, and accurate profiling of the somatic mutation status of 36 key oncogenes and tumor suppressors of the human cancer genome. Genes covered on this panel are among the most frequently mutated in human cancers and therefore warrant extensive investigation to enhance the understanding of carcinogenesis and identify potential drug targets. Numerous research studies have demonstrated the utility of individual and multiple somatic mutation status information in identifying key signaling transduction disruptions. For example, the mutation status of the EGFR and KRAS genes can predict the physiological response to certain drugs targeting these molecules. The Human Oncogene and Tumor Suppressor Panel qBiomarker Somatic Mutation PCR Array, with its comprehensive content coverage, is designed for the study of mutations in all major oncogenes and tumor suppressors and has the potential for discovery and verification of drug target biomarkers for a variety of human cancers. This array includes 346 DNA sequence mutation assays designed to detect the most frequent, functionally verified, and biologically significant mutations in human oncogenes and tumor suppressors. These mutations were chosen from curated, comprehensive somatic mutation databases and peer-reviewed scientific literature. The simplicity of the product format and operating procedure allows routine somatic mutation profiling in any research laboratory with access to real-time PCR instruments. Researchers with interest in in-depth mutation analysis for a specific pathway or disease are encouraged to explore relevant pathway- or disease-specific somatic mutation PCR arrays. Additional mutation assays (not included in this array) for the majority of the genes are also available.

For further details, consult the *qBiomarker Somatic Mutation PCR Handbook*.

Shipping and storage

qBiomarker Somatic Mutation PCR Arrays are shipped at ambient temperature or on blue ice packs. For long term storage, keep plates at -20°C . Ensure that you have the correct qBiomarker Somatic Mutation PCR Array format for your real-time cycler (see table above). qBiomarker Probe Mastermixes are shipped on blue ice packs. For long term storage, keep qBiomarker Probe Mastermixes at 4°C .

Note: Ensure that you have the correct qBiomarker Probe Mastermix, with the correct reference dye if required, for your instrument.

Note: Open the package and store the products appropriately immediately on receipt.

Assay table

Position	Gene	COSMIC ID	Nucleotide Change	Amino Acid Change	Assay Catalog #
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qBiomarker Somatic Mutation PCR Array products are intended for molecular biology applications. These products are not intended for the diagnosis, prevention, or treatment of a disease.

For up-to-date licensing information and product-specific disclaimers, see the respective QIAGEN kit handbook or user manual. QIAGEN kit handbooks and user manuals are available at www.qiagen.com or can be requested from QIAGEN Technical Services or your local distributor.

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