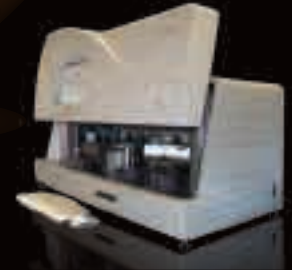


# CHEK2

# SPOT ON INFINITI™


*The Automated Multiplexing MDx Solution*



## Product Design

- ▶ The INFINITI™ CHEK2 Assay is designed to identify patients with CHEK2 genetic variants.
- ▶ The INFINITI CHEK2 Assay utilizes the CHEK2 Intellipac™, CHEK2 Amp Mix and CHEK2 BioFilmChip™ Microarray.
- ▶ The INFINITI CHEK2 Assay is automated by the 510(k) cleared INFINITI Analyzer.
- ▶ Clinical validation is currently in progress.

## Benefits

	VERSATILITY	◆	Multiplexed determination of 2 genetic variants on one BioFilmChip Microarray
	EFFICIENCY	◆	Rapid turnaround time enhances workflow efficiency
	AGILITY	◆	<i>Load N Go</i> automation with the INFINITI Analyzer
	INTEGRITY	◆	Replicate determinations on a single BioFilmChip Microarray ensure quality results

## Genetic Variants

CHEK2: 1100 delC, I157T

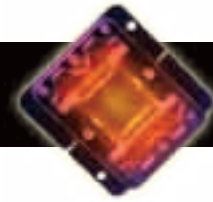
## Sample Type and Volume

0.2 – 2.0 ml of peripheral whole blood in EDTA (purple-top) tube  
50 ng DNA / reaction

## Product Information

Product No.	Product Name	Description	Pack Size
02 103	INFINITI CHEK2 BioFilmChip	12 BioFilmChips / Magazine	4 Magazines / pack
02 203	INFINITI CHEK2 Intellipac	24 tests / Intellipac	2 Intellipacs / pack
02 303	INFINITI CHEK2 Amp Mix	250 µl / vial	4 vials / pack

Please contact AutoGenomics to obtain product information and for product status updates.



## Clinical Relevance

- ▶ The CHEK2 gene encodes for the checkpoint kinase 2 protein which is commonly identified as a tumor suppressor.
- ▶ A mutation in this gene is associated with an increased risk of cancer.

## Clinical Utility

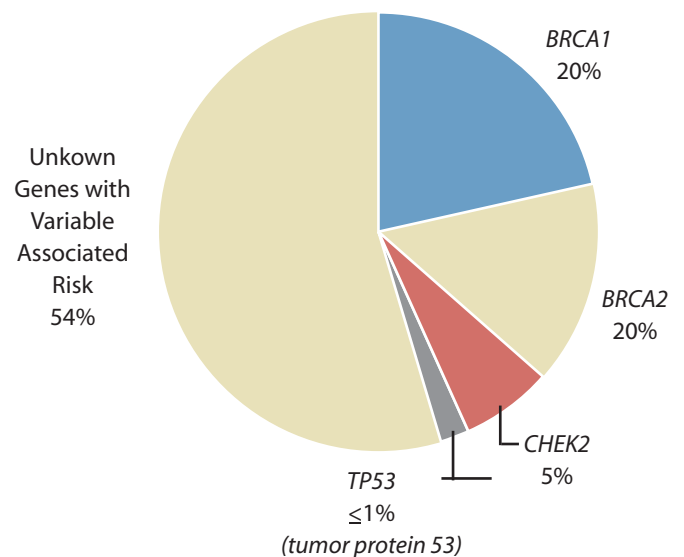
- ▶ The study below has shown CHEK2 as the third largest genetic variant when testing an individual for familial breast cancer. CHEK2 can lead physicians to evaluate the individual's risk of breast cancer or their being a carrier of CHEK2\*1100delC.<sup>1</sup>
- ▶ "A mutation in the gene CHEK2 may account for 1% of all breast cancers in women, and 9% of those in men..."<sup>2</sup>
- ▶ CHEK2 is associated with the following disease states:<sup>1</sup>
  - Breast Cancer
  - Prostate Cancer
  - Colorectal Cancer

## The Genetics of Breast Cancer<sup>1</sup>:

percent of families with evidence of inherited susceptibility to breast cancer.

CHEK2 – mutation occurs in 4.2% of patients with 2 or more family members with breast cancer but is found in 1.1% of women without breast cancer

BRCA1 and BRCA2 mutations occur in 20% of families with evidence of inherited susceptibility to breast cancer



## References

1. Richard Wooster, Ph.D. and Barbra L. Weber, M.D., "Breast and Ovarian Cancer", NEJM 348:23, 2003, 2339-47
2. Louis, Meera.- Annie Appleseed Project. 8 Jan, 2006.