BRCA1/2

ARCHER™ VARIANTPlex™

Archer™ VariantPlex™ BRCA1/2 Panel

Inheritable BRCA1/2 mutations substantially increase the lifetime risk of developing breast and ovarian cancer. The Archer VariantPlex BRCA1/2 Panel prepares target-enriched libraries to detect and identify germline mutations in BRCA1 and BRCA2 by next-generation sequencing (NGS).

The panel is part of the VariantPlex system that utilizes Anchored Multiplex PCR chemistry to create genomic NGS libraries from low sample input. The system also uses single-step fragmentation that eliminates the need to shear genomic DNA. Lyophilized, pre-aliquoted reagents replace master mixes for greater consistency, and the simple workflow reduces sample handling and the risk of pipetting errors.

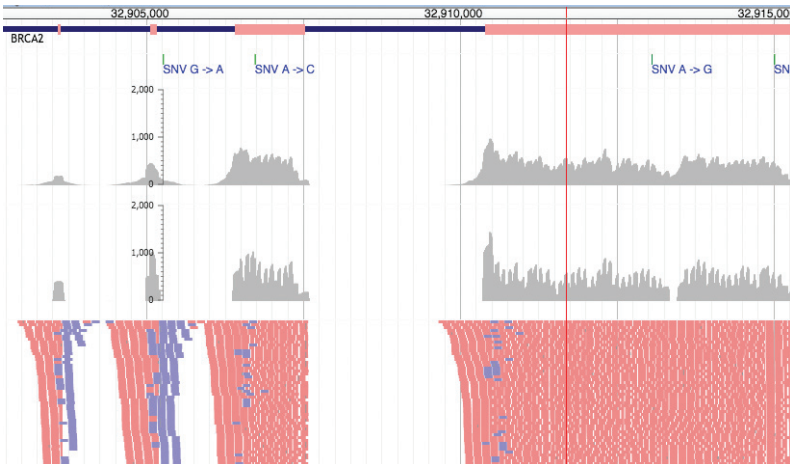
- Full exon coverage
- Integrated fragmentation
- Random start sites for complex library preparation
- Molecular barcodes for deduplication and confident mutation calling

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

Learn more about the VariantPlex BRCA1/2 Panel at
www.archerdx.com/brca

Superior Coverage and Uniformity

The VariantPlex BRCA1/2 Panel design covers all coding and non-coding exons of BRCA1 and BRCA2 and is optimized for high coverage with a low number of sequencing reads. The panel also detects virtually all known BRCA1 and BRCA2 mutations, including SNPs, insertions and deletions.



Sequencing pileup of bidirectional reads across multiple BRCA2 exons with SNPs detected

Coverage uniformity is greater than 97%, enabling maximum coverage of all target regions with minimum total reads and multiplex analysis.

Coverage Depth	Non-Deduplicated Reads	Deduplicated Reads
35X	100% bases covered	100% bases covered
100X	99.97% bases covered	99.75% bases covered
250X	98.48% bases covered	94.39% bases covered