



Pillar® ONCO/Reveal™ BRCA1 & BRCA2 plus CNV Panel

The ONCO/Reveal BRCA1 & BRCA2 plus CNV Panel is designed for the detection of exon-level copy number variation (CNV) across the entire coding region of the BRCA1 and BRCA2 genes. The assay is designed with shorter amplicons to allow for detection of mutations from FFPE samples, while also being compatible with intact genomic DNA from blood samples. The assay sequences the full coding region plus 10bp of flanking introns. The panel utilizes proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology for efficient single tube target enrichment.

Panel specifications

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes/amplicons	2/283
Number of targets	Full coding gene sequence (CDS) with flanking intronic regions (10bp)
Variant types	Exon level CNV , SNV, small and medium indels
Average amplicon size	155bp
Recommended DNA input range	20ng to 80ng
Sample type	DNA from tissue or blood; FFPE
Mapping rate	99.0% ± 0.3%
% on-target aligned reads	98.6% ± 0.2%
Coverage uniformity (% targets with >0.2X mean coverage)	98.0% ± 0.1%
Total assay time (from DNA to sequencer)	<8 hours
Sequencing platforms	Illumina®, MGISEQ™ and Ion Torrent™ platforms

Simple NGS library prep workflow

Maintain control of samples and results with single-tube, tiled amplification that can be performed in-house by any NGS lab

Sensitive and robust chemistry

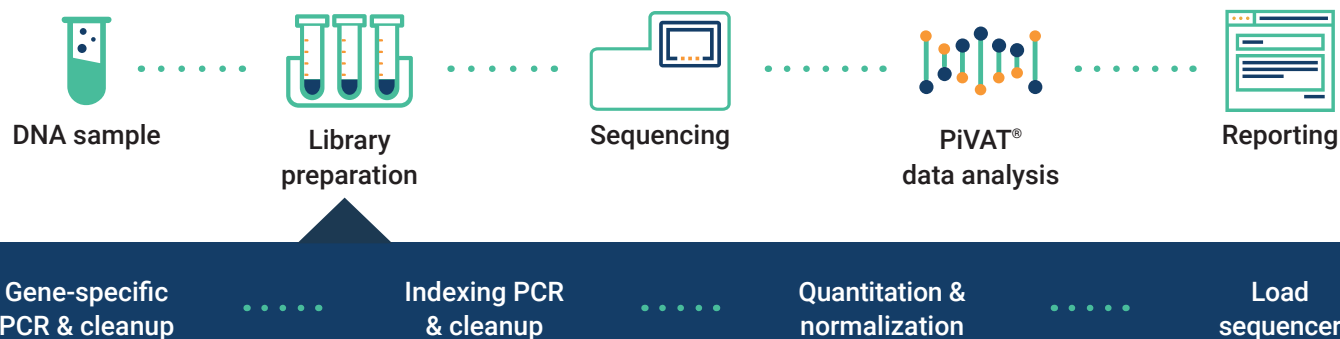
Achieve variant detection as low as 1% VAF† without UID‡ even with limited DNA input or poor sample quality.

Reduced fully-loaded lab costs

Improve lab efficiency and reduce “no calls”, repeat testing, and difficult interpretation decisions

†VAF, variant allele frequency; ‡ UID, unique ID; also known as unique molecular ID (UMI)

Simple, one-day workflow



Ordering information

Panel	Part number
ONCO/Reveal BRCA1 & BRCA2 plus CNV Panel	HDA-BR-1003-24

Pillar Index Kit options	Part number
Pillar Kit A, indices PI501-8, PI701-4 (32 combinations)	IDX-PI-1001-96
Pillar Kit B, indices PI501-8, PI705-8 (32 combinations)	IDX-PI-1002-96
Pillar Kit C, indices PI501-8, PI709-12 (32 combinations)	IDX-PI-1003-96
Pillar Kit D, indices PI501-8, PI701-12 (96 combinations)	IDX-PI-1004-192
Pillar Kit E, indices PI501-8, PI701-12 (96 combinations)	IDX-PI-1004-384

Ion Torrent Index Kit options	Part number
Pillar Biosciences IonXpress Indexing Kit A (24 combinations) includes ION Common Index	IDX-TI-1001-96

MGI Index Kit options	Part number
Pillar Biosciences MGI Indexing Kit A (24 combinations) includes BGI Common Index	IDX-BI-1001-96

Multiple index options are available to meet your throughput needs. Only one index kit is required.

Order or learn more at
pillar-biosciences.com



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