



Pillar® ONCO/Reveal™ BRCA1 & BRCA2 Somatic Panel

The ONCO/Reveal BRCA1 & BRCA2 Somatic Panel is specifically designed with shorter amplicons to detect mutations in FFPE samples. The assay sequences the entire coding region of the BRCA1 and BRCA2 genes plus 10bp of flanking introns. Pillar also offers a panel optimized for germline BRCA1 & BRCA2 mutation detection. Both panels use proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology for efficient single-tube target enrichment.

Panel attributes

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes/amplicons	2/196
Number of targets	Full coding gene sequence (CDS) with flanking intronic regions (10bp)
Variant types	SNVs, indels
Average amplicon size	112bp
Input DNA range	10ng to 60ng (20ng recommended)
Sample types	FFPE
Mapping rate	98.4% ± 1.0%
% on-target aligned reads	99.9% ± 0.0%
Coverage uniformity (% targets with >0.2X mean coverage)	99.6% ± 0.5%
Total assay time (from DNA to sequencer)	<8 hours
Sequencing platforms	Illumina®, MGISEQ™, and Ion Torrent™

Simple NGS library prep workflow

Maintain control of your 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[‡]s even with limited DNA input or poor sample quality

Reduced fully-loaded costs

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

[†] VAF, variant allele frequency

[‡] UID, unique ID; also known as unique molecular ID (UMI)

Simple, one-day workflow



Gene-specific
PCR & cleanup

Indexing PCR
& cleanup

Quantitation &
normalization

Load
sequencer

Ordering information

Select the panel AND one of the index kit options listed below.

Panel	Part number
ONCO/Reveal BRCA1 & BRCA2 Somatic Panel	HDA-BR-1002-24

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) <i>Includes ION Common Index</i>	IDX-TI-1001-96

MGI Index Kit options	Part number
Pillar Biosciences MGI Indexing Kit A (24 combinations) <i>Includes BGI Common Index</i>	IDX-BI-1001-96

Order or learn more at
pillar-biosciences.com

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