



# Pillar® ONCO/Reveal™ BRCA1 & BRCA2 Panel

The ONCO/Reveal BRCA1 & BRCA2 Panel is a robust NGS assay to sequence the **entire coding regions** of the BRCA1 and BRCA2 genes plus 20bp of flanking introns. The assay uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology, a tiled amplicon-based library prep chemistry for efficient single-tube target enrichment.

## Panel specifications

Enrichment chemistry	Multiplex PCR using tiled amplicons
<b>Number of pools</b>	<b>1 pool</b>
Number of genes/amplicons	2/91
Number of targets	Full coding gene sequence (CDS) with flanking intronic regions (20bp), 17 kb total size
Variant types	SNVs, indels
Average amplicon size	331bp
Recommended DNA input range	5ng to 100ng
Sample types	Genomic DNA from blood or tissue
Mapping rate	99.8% ± 0.3%
% on-target aligned reads	99.8% ± 0.2%
Coverage uniformity (% targets with >0.2X mean coverage)	98.3% ± 1.3%
Total assay time (from DNA to sequencer)	<8 hours
Sequencing platforms	Illumina®

### 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<sup>†</sup> without UID<sup>‡</sup>s with limited DNA input or poor sample quality

<sup>†</sup> VAF, variant allele frequency

<sup>‡</sup> UID, unique ID; also known as unique molecular ID (UMI)

### Reduced fully-loaded lab costs

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

## 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 Panel	HDB-BR-1001-24

TSCA Index Kit options	Part number
TSCA Kit A, indices AI501-8, AI701-4 (32 combinations)	IDX-AI-1001-96
TSCA Kit B, indices AI501-8, AI705-8 (32 combinations)	IDX-AI-1002-96
TSCA Kit C, indices AI501-8, AI709-12 (32 combinations)	IDX-AI-1003-96
TSCA Kit D, indices AI501-8, AI701-12 (96 combinations)	IDX-AI-1004-192
TSCA Kit E, indices AI501-8, AI701-12 (96 combinations)	IDX-AI-1004-384

Order or learn more at  
[pillar-biosciences.com](http://pillar-biosciences.com)



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