

4 Gene Methylation Panel

The **oncoReveal™ 4 Gene Methylation Panel** is a robust NGS assay that interrogates CpG sites within BRCA1, BRCA2, RAD51C, and XRCC3 that have undergone bisulfite conversion for methylome analysis. The assay uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology, a tiled amplicon-based library prep chemistry for efficient single-tube enrichment of targets.

oncoReveal™ 4 Gene Methylation Panel

Gene
BRCA1
BRCA2
RAD51C
XRCC3

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

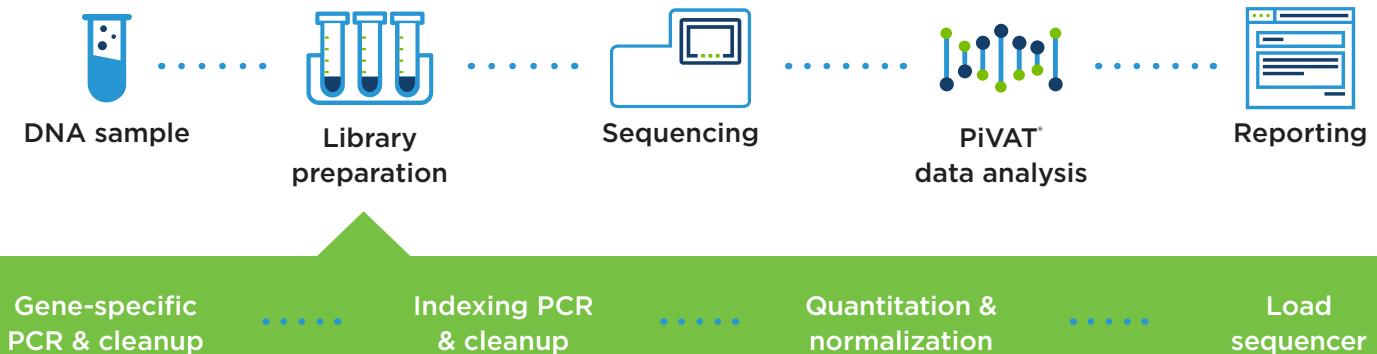
Sensitive and robust chemistry

Achieve variant detection as low as 1% VAF[†] without UIDs[†] 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

Simple, one-day workflow



[†]UID, unique ID; also known as unique molecular ID (UMI); [†]VAF, variant allele frequency
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Panel specifications*

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes/amplicons	4 genes / 12 amplicons
Variant types	Methylation status of >80 CpG sites
Average amplicon size	120bp
Recommended DNA input range	5-60ng (10ng recommended)
Sample types	Bisulfite or enzymatically covered DNA
Mapping rate	95%
% on-target aligned reads	90%
Coverage uniformity (% targets with >0.2X mean coverage)	90%
Recommended Reads Per Sample	~50,000 paired-end reads
Total assay time (from DNA to sequencer)	<8 hours

* Mapping rate, percentage of on-target aligned reads, and coverage uniformity metrics are based on internal testing performed using reference standard materials

Ordering information

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

Panel	Part number
oncoReveal™ 4 Gene Methylation Panel	HDA-HR-1009-24

Pillar Index Kit options	Reactions	Part number
Pillar Custom Index Primers Kit A	32 Combinations, 96 reactions	IDX-PI-1001-96
Pillar Custom Index Primers Kit D	96 Combinations, 192 reactions	IDX-PI-1004-192

TO ORDER OR LEARN MORE:
pillarbiosci.com

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