

# HRD v2 Panel

The **oncoReveal™ HRD v2 Panel** is designed for detection of SNVs, indels, and BRCA1 & BRCA2 exon level CNVs. 33 HRD-related genes can be assessed in either FFPE or blood samples. The panel utilizes proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology, a tiled amplicon-based library prep chemistry for efficient single-tube target enrichment.

## oncoReveal™ HRD v2 Panel (33 genes)

ARID1A	<b>BRCA2</b>	ESR1	FEN1	PPP2R1A	RAD51D
ATM	BRIPI	FANCA	KRAS	PTEN	RAD54L
ATR	CDK12	FANCC	MRE11A	RAD50	TP53
BARD1	CHEK2	FANCD2	NBN	RAD51	
BRAF	CTNNB1	FANCE	PALB2	RAD51B	
<b>BRCA1</b>	ERBB2	FANCF	PIK3CA	RAD51C	

Genes marked in **green** indicate full CDS coverage

### 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

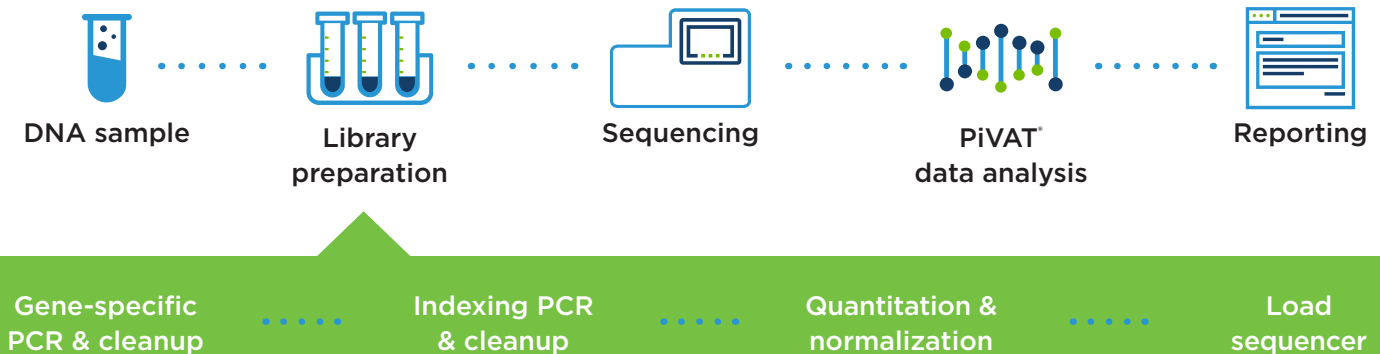
### Sensitive and robust chemistry

Achieve variant detection as low as 1% VAF<sup>†</sup> without UID<sup>†</sup>s 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



## Panel specifications\*

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes/amplicons	33/1,314
Number of targets	Full CDS coverage and exon-level CNVs for BRCA1 & BRCA2 genes, hotspots in 31 additional HRD-related genes; 114.5kb total size
Variant types	SNVs, indels, exon level CNVs for BRCA1 & BRCA2
Average amplicon size	157bp
Recommended DNA input range	20ng to 80ng
Sample types	DNA from tissue, blood, or FFPE
Mapping rate	97.9% ± 1.7%
% on-target aligned reads	91.1% ± 0.8%
Coverage uniformity (% targets with >0.2X mean coverage)	92.5% ± 0.9%
Recommended Reads Per Sample	-6.5 million to 7.5 million 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™ HRD v2 Panel (24 reactions)	HDA-HR-1002-24

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](http://pillarbiosci.com)

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