



Pillar® ONCO/Reveal™ PillarHS Multi-Cancer Panel

The ONCO/Reveal PillarHS Multi-Cancer Panel is a robust NGS assay that interrogates 31 genes of interest across multiple solid tumor cancer types. The panel includes unique molecular IDs (UIDs) to increase sensitivity and is specifically designed for circulating cell-free tumor DNA (ccfDNA/cfDNA/ctDNA, liquid biopsies). The assay uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology for efficient single-tube

ONCO/Reveal PillarHS Multi-Cancer Panel (31 genes)

AKT1	BRAF	ERBB3	GNAS	KIT	NRAS	PIK3CA	SF3B1
ALK	CTNNB1	ESR1	HRAS	KRAS	NTRK1	PPP2R1A	SMAD4
APC	EGFR	FBXW7	IDH1	MAP2K1	NTRK3	PTEN	TP53
ARAF	ERBB2	FGFR2	IDH2	MET	PDGFRA	ROS1	

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

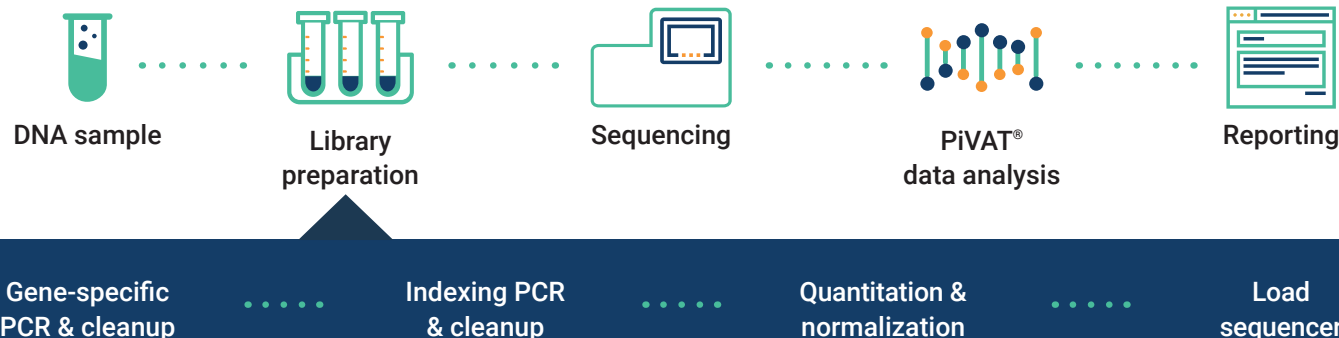
Sensitive and robust chemistry

Achieve variant detection <1% VAF[‡] with 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



*Content is based on data from ongoing clinical trials along with sources that include the College of American Pathologists (CAP), the Association for Molecular Pathology (AMP), the National Comprehensive Cancer Network (NCCN), and the Catalog of Somatic Mutations in Cancer (COSMIC) database.

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

For Research Use Only. Not for use in diagnostic procedures.

Panel specifications

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes/amplicons	31/131
Total panel size	3.5kb
Variant types	SNVs, indels
Average amplicon size	71bp
DNA input range	10ng to 50ng (20ng recommended)
Sample type	ccfDNA/cfDNA/ctDNA
Mapping rate	98.4% ± 0.7%
% on-target aligned reads	96.3% ± 0.3%
Coverage uniformity (% targets with >0.2X mean coverage)	95.7% ± 0.3%
Total assay time (from DNA to sequencer)	<9-10 hours
Sequencing platforms	Illumina®, MGISEQ™, and Ion Torrent™

Ordering information

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

Panel	Part number
ONCO/Reveal PillarHS Multi-Cancer Panel	HLA-HS-1001-24

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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