



Pillar® ONCO/Reveal™ Solid Tumor Panel

The ONCO/Reveal Solid Tumor Panel is a robust 47-gene assay that simultaneously tests for key mutations present in solid tumors, including NSCLC, colorectal, pancreatic, GIST, thyroid cancer, melanomas and gliomas. Additionally, genes with potential importance in immuno-oncology such as POLD1 and POLE are analyzed. The panel uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology for efficient single-tube target enrichment.

ONCO/Reveal Solid Tumor Panel (47 genes)

AKT1	CYSLTR2	FBXW7	GNAS	KIT	PDGFRA	PTPN11	SRSF2
ALK	DDR2	FGFR1	H3F3A	KRAS	PIK3CA	RAC1	STK11
ARAF	EGFR	FGFR2	HIST1H3B	MAP2K1	PLCB4	RAF1	TERT
BRAF	EIF1AX	FGFR3	HRAS	MET	POLD1	RET	TP53
CDKN2A	ERBB2	GNA11	IDH1	NRAS	POLE	SF3B1	TSHR
CTNNB1	ERBB4	GNAQ	IDH2	NTRK1	PTEN	SMAD4	

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

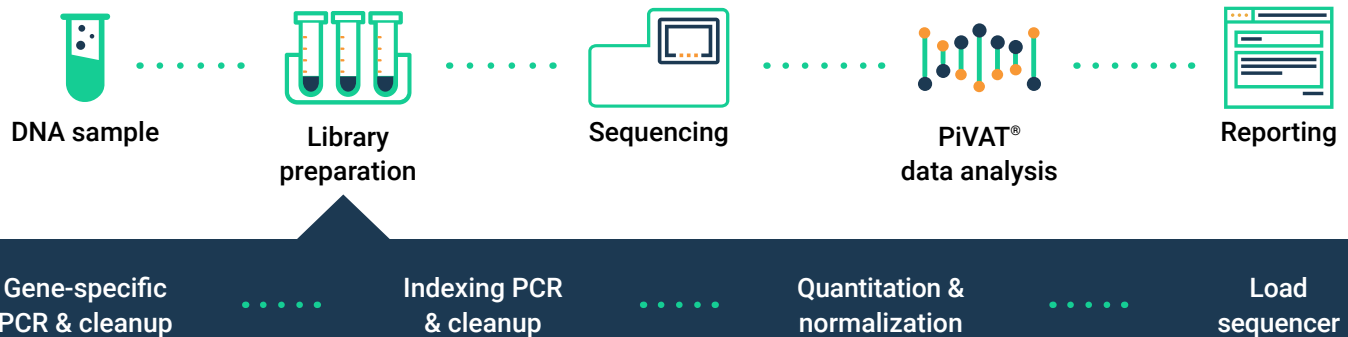
Sensitive and robust chemistry

Achieve variant detection as low as 1% VAF⁺ without UID^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	47/222
Number of targets	24kb total coverage; full CDS coverage of 3 genes; hotspots in 44 genes
Variant types	SNVs, small and medium indels
Average amplicon size	152 bp
Recommended DNA input range	2.5ng to 60ng (10ng recommended)
Sample types	DNA from tissue or blood; FFPE
Mapping rate	98.7% ± 0.9%
% on-target aligned reads	98.7% ± 0.3%
Coverage uniformity (% targets with >0.2X mean coverage)	98.7% ± 0.9%
Total assay time (from DNA to sequencer)	<8 hours
Sequencing platforms	Illumina®, MGISEQ™ and Ion Torrent™ platforms

Ordering information

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

Panel	Part number
ONCO/Reveal Solid Tumor Panel	HDA-HS-1005-24

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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