



## oncoReveal<sup>®</sup> Core LBx Panel

The **oncoReveal<sup>®</sup> Core LBx Panel** is a robust NGS assay that interrogates 104 genes of interest across multiple solid tumor cancer types. The panel is specifically designed for cell-free DNA (cfDNA) extracted from plasma and can detect four types of variants: single nucleotide variants (SNVs), small insertion/deletion (indel) variants, copy number amplification (CNA), and microsatellite instability (MSI). The panel uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp<sup>®</sup>) technology, a tiled amplicon-based library prep chemistry for efficient single-tube target enrichment.

### oncoReveal<sup>®</sup> Core LBx Panel (104 genes)

AKT1	AXIN2	CDKN2A	EZH2	GNAQ	KRAS	MTOR	PAK5 (PAK7)	PTRD	ROS1	TP53
ALK	AXL	CIC	FBXW7	GNAS	▲ MAP2K1	MYC	PDCD1	PTPRS	RUNX1	TSC1
APC	B2M	CREBBP	▲ FGFR1	HNF1A	MAP2K2	MYOD1	▲ PDGFRA	RAC1	SF3B1	U2AF1
AR	BCOR	CTCF	▲ FGFR2	HRAS	MAPK1	NCOR1	▲ PIK3CA	RB1	SMAD4	VHL
ARAF	BRAF	CTNNB1	▲ FGFR3	IDH1	MED12	NF1	PIK3R1	RET	SOX9	
ARID1A	CARD11	▲ EGFR	FLCN	IDH2	▲ MET	NFE2L2	POLE	RAF1	SPOP	
ARID2	CCND1	EP300	FOXL2	IKZF1	MLH1	NOTCH1	PPP2R1A	RHEB	STAT5B	
ASXL1	CDH1	▲ ERBB2	GATA3	JAK1	KMT2D (MLL2)	NRAS	PTCH1	RHOA	SMO	
ATM	CDK4	ERBB3	GLI1	KDM5A	MRE11 (MRE11A)	NTRK1	PTEN	RIT1	STK11	
ATRX	CDK6	ESR1	GNA11	▲ KIT	MSH6	NTRK3	PTPN11	RNF43	TCF7L2	

Copy Number Amplifications (CNAs) can also be detected by genes indicated by ▲

Genes marked in blue indicate full CDS coverage

#### Simple, Rapid NGS Library Prep Workflow

- Single-tube library prep simplifies assay setup and reduces hands-on time
- Flexible stopping points support efficient sample batching
- Faster turnaround times with sample-to-result in <48 hours

#### Accurate, Reproducible Results

- Detect variants down to 0.1% VAF\*
- Consistent performance across low-input and degraded DNA samples
- Robust assay design supports reproducible results across runs

#### Scalable NGS Testing with Intuitive Informatics

- Facilitates an efficient and economic adoption of in-house NGS workflows
- Low read requirements support scalable, high-throughput testing
- Integrated informatics with a user-friendly GUI
- Streamlined analysis supports a clear path from sample to results

\*VAF, variant allele frequency; VAF detection may be supported at lower frequency for key variants  
For research use only. Not for use in diagnostic procedures.

## oncoReveal® Core LBx Panel Specifications\*

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes   amplicons	104   447
Total panel size	13.9kb
Variant types	SNVs, indels, CNAs, and MSI
Average amplicon size	80bp
Recommended DNA input range	10ng to 30ng
Sample types	cfDNA from plasma
Mapping rate	~90%
% on-target aligned reads	~90%
Coverage uniformity (% targets with >0.2x mean coverage)	~90%
Recommended reads per sample	~33 million paired-end reads
Total assay time (from DNA to sequencer)	<10 hours

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

## Ordering information

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

Panel	Part Number
oncoReveal® Core LBx Panel (24 reactions)	HLA-HS-1004-24

Pillar Unique Dual Index Kit Options	Reactions	Part Number
Pillar Biosciences LBx Indexing Kit A	24 Combinations, 96 reactions	IDX-PI-1013-96
Pillar Biosciences LBx Indexing Kit B	24 Combinations, 96 reactions	IDX-PI-1014-96

To order or learn  
more, please visit  
[pillarbiosci.com](http://pillarbiosci.com)

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