



Pillar® ONCO/Reveal™ Lung Fusion RNA Panel

The ONCO/Reveal Lung Fusion Panel is a robust NGS assay that interrogates multiple gene rearrangement regions of interest* across non-small cell lung cancer (NSCLC) samples. The assay uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology, a tiled amplicon-based library prep chemistry for efficient single-tube target enrichment.

ONCO/Reveal Lung Fusion RNA Panel (8 genes)

Kinase (exon)	Partner gene (exon)
ALK(19,20)	CLTC(31), EML4(2,3,6,13,14,15,17,18,20), HIP1(21,28,30), KIF5B(15,17,24), KLC1(9), MSN(11), STRN(3), TGF(4,5,6), TPM3(8), TPR(15)
FGFR3(17,18)	TACC3(4,8,9,10,11)
NRG1(4,6)	CD74(6,8), SLC3A2(5), VAMP2(4)
NTRK1(10,12,13)	CD74(3,8), MPRIP(14,18,21), TGF(5), TPM3(8), TPR(6,21)
RET(8,11,12)	CCDC6(1), CUX1(10), KIF5B(15,16,22,23,24), NCOA4(7), TRIM33(11,14)
PBX1	TCF3
ROS1(32,34,35,36)	CCDC6(5), CD74(6), CLTC(31), EZR(10), GOPC(4,8), LRIG3(16), MSN(9), SDC4(2,4), SLC34A2(4,13), TGF(4), TPM3(8)
MET(15)	KIF5B(24)
MET exon 14 skipping	

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

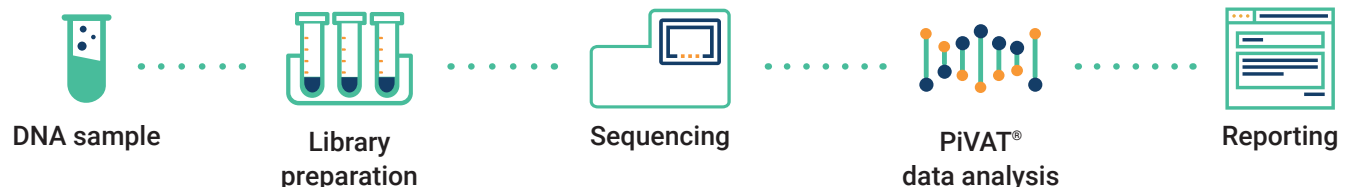
Sensitive and robust chemistry

Accurately detect RNA fusions without UIDs even with limited 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



Gene-specific PCR & cleanup

Indexing PCR & cleanup

Quantitation & normalization

Load sequencer

Panel specifications

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes/fusions	8/92 plus MET 14 exon skipping
Variant types	Fusion RNA transcripts
Average amplicon size	141bp
Recommended RNA input range	10ng to 50ng
Sample type	RNA from FFPE or tissue
Total assay time (from sample to sequencer)	<9-10 hours
Sequencing platforms	Illumina® and MGISEQ™

Ordering information

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

Panel	Part number
ONCO/Reveal Lung Cancer Fusion RNA Panel	HRA-LL-1001-24

TSCA Index Kit options	Part number
TSCA Kit A, indices AI501-8, AI701-4 (32 combinations)	IDX-AI-1001-96
TSCA Kit B, indices AI501-8, AI705-8 (32 combinations)	IDX-AI-1002-96
TSCA Kit C, indices AI501-8, AI709-12 (32 combinations)	IDX-AI-1003-96
TSCA Kit D, indices AI501-8, AI701-12 (96 combinations)	IDX-AI-1004-192
TSCA Kit E, indices AI501-8, AI701-12 (96 combinations)	IDX-AI-1004-384

*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.

Order or learn more at
pillar-biosciences.com

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