

oncoReveal™ Multi-Cancer RNA Fusion v2 Panel

The Pillar® oncoReveal™ Multi-Cancer RNA Fusion v2 Panel is a robust NGS assay that interrogates multiple gene rearrangement regions of interest* across multiple solid tumor cancer types. The assay uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology, a tiled amplicon-based library prep chemistry for efficient single-tube target enrichment.

Target driver genes	Target driver genes
ALK	EML4, CLTC, HIP1, KIF5B, KLC1, STRN, TFG, TPM3, TPR, MSN
BRAF	KIAA1549, MKRN1, FAM131B, AKAP9
EGFR	SEPT14, PSPH, RAD51, EGFRvIII
ERG	TMPRSS2
FGFR2	BICC1, CASP7
FGFR3	TACC3, BAIAP2L1
MET	KIF5B, Ex14 skipping
NRG1	CD64, SLC3A2, VAMP2
NTRK1	TPM3, TFG, LMNA, SQSTM1, CHTOP, ARHGEF2, NFASC, IRF2BP2, PPL, BCAN, SCYL3, TP53, CD74, MPRIP, TPR
NTRK2	AFAP1, NACC2, BCR, TRIM24, QKI, PAN3, SQSTM1
NTRK3	ETV6, BTBD1, EML4, SQSTM1, TFG, RBPMS
PBX1	TCF3
PPARG	PAX8, CREB3L2
PRKACA	DNAJB1
RAF1	ESRP1, SRGAP3
RET	CCDC6, CUX1, KIF5B, NCOA4, TRIM33, PRKAR1A
ROS1	CCDC6, CD74, CLTC, EZR, GOPC, LRIG3, MSN, SDC4, SLC34A2, TFG, TPM3

3'/5' Expression Imbalance Ration Assessed

ALK ROS1 RET NTRK1 NTRK2 NTRK3 FGFR3 NRG1 PBX1

Expression Control Genes

HMBS TBP

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 sensitive and robust fusion detection without UID[‡], even with limited RNA input or poor sample quality.

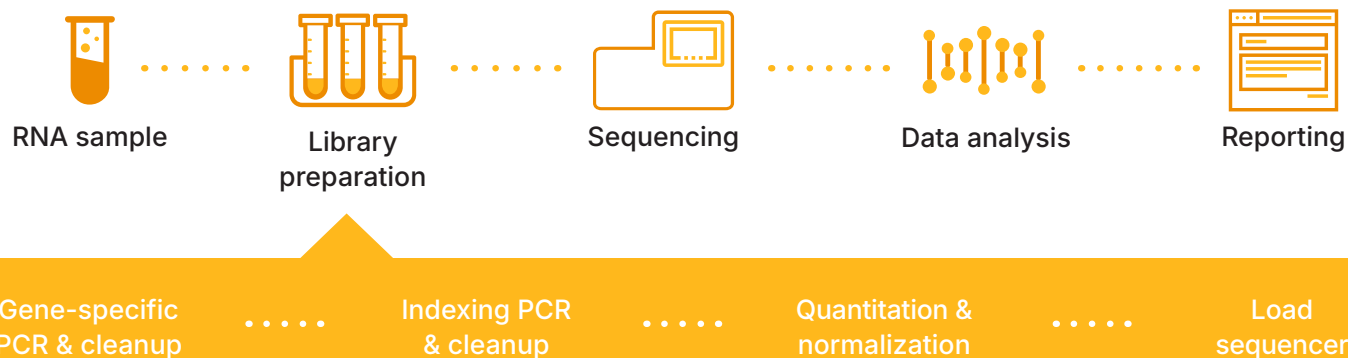
Reduced fully-loaded lab costs

Improve lab efficiency and reduce “no calls”, repeat testing, and difficult interpretation decisions

* 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. Panel content was designed in accordance with the Association for Molecular Pathology (AMP) guidelines and incorporates guidance from multiple hematologists. ‡ UID, unique ID; also known as unique molecular ID (UMI)

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Simple, one-day workflow



Panel specifications*

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes/partners	18 genes and >80 partners, plus <i>MET</i> 14 exon skipping
Variant types	Fusion RNA transcripts
Average amplicon size	120 bp
Input RNA	10 ng - 50 ng
Sample types	RNA from FFPE or tissue
Total assay time (from DNA to sequencer)	<9 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™ Multi-Cancer RNA Fusion v2 Panel (24 reactions)	HRA-HS-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

For more information go to:
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