

oncoReveal®

Multi-Cancer RNA Fusion v2 Panel

The **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 panel uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology, a tiled amplicon-based library prep chemistry, designed by Pillar’s AI-empowered VersaTile™ Primer Design tool, for efficient single-tube target enrichment.

Driver Genes	Fusion Partners
ALK	EML4, CLTC, HIP1, KIF5B, KLC1, STRN, TFG, TPM3, TPR, MSN
BRAF	KIAA1549, MKRN1, FAM131B, AKAP9
EGFR	SEPT14, PSPH, RAD51
ERG	TMPRSS2
FGFR2	BICC1, CASP7
FGFR3	TACC3, BAIAP2L1
MET	KIF5B
NRG1	CD74, 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, STRN
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
TFE3	SFPQ, ASPSCR1, CLTC, PRCC, NONO
	MET exon 14 skipping, EGFR variant III

3'/5' Expression Imbalance Ratio Assessed								
ALK	ROS1	RET	NTRK1	NTRK2	NTRK3	FGFR3	NRG1	PBX1

Expression Control Genes	
HMBS	TBP

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

Accurate, Reproducible Results

- Consistent performance across low-input and degraded RNA samples
- Robust assay design supports reproducible results across runs

Scalable NGS Testing with Intuitive Informatics

- Low read requirements support scalable, high throughput testing
- Integrated informatics with a user-friendly GUI

For research use only. Not for use in diagnostic procedures.

oncoReveal® Multi-Cancer RNA Fusion v2 Panel Specifications

Enrichment chemistry	Multiplex PCR using tiled amplicons
Number of pools	1 pool
Number of genes partners	18 genes >80 partners, plus MET exon 14 skipping EGFR variant III
Variant types	Fusion RNA transcripts
Average amplicon size	120bp
Recommended RNA input range	25ng to 100ng RNA
Sample types	RNA from FFPE or tissue
Recommended reads per sample	~100,000 paired-end reads
Total assay time (from RNA to sequencer)	<11 hours (including reverse transcription)

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

To order or learn more, please visit pillarbiosci.com

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