

# Heme Fusion Panel

The **oncoReveal® Heme Fusion** Panel is a robust NGS assay that interrogates multiple gene fusion events in regions of interest across hematological malignancies. 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 of targets from RNA.

## oncoReveal® Heme Fusion Panel

5' Partner	3' Partner	5' Partner	3' Partner
ATIC	ALK	NUP214	ABL1
BCOR	RARA	NUP98	HOXA9, KDM5A, NSD1
BCR	ABL1, FGFR1, JAK2	PAG1	ABL2
BIRC3	MALT1	PAX5	JAK2
CBFA2T3	GLIS2	PCM1	JAK2
CBFB	MYH11	PICALM	MLLT10
CTLA4	CD28	PML	RARA
DEK	NUP214	RABEP1	PDGFRB
EBF1	PDGFRB	RANBP2	ALK
EP300	ZNF384	RBM15	MKL1
ETV6	ABL1, ABL2, JAK2, MN1, NTRK3, PDGFRB, RUNX1	RCSD1	ABL2
FGFR1OP	FGFR1	RUNX1	MECOM, PRDM16, RUNX1T1
FIP1L1	PDGFRA	SET	NUP214
FUS	ERG	SSBP2	JAK2
ITK	SYK	STIL	TAL1
KAT6A	CREBBP	STRN	ALK
KMT2A	AFDN, AFF1, ARHGEF12, CREBBP, ELL, EPS15, KMT2A, MLLT1, MLLT10, MLLT11, MLLT3, MLLT6, SEPT5, SEPT6, SEPT9, USP2	TBL1XR1	TP63
MEF2D	BCL9	TCF3	PBX1
NIN	PDGFRB	ZNF292	PNRC1
NPM1	ALK, CCDC28A, HAUS1, MLF1, RARA, RPP30, SETBP1, TYK2		

### 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

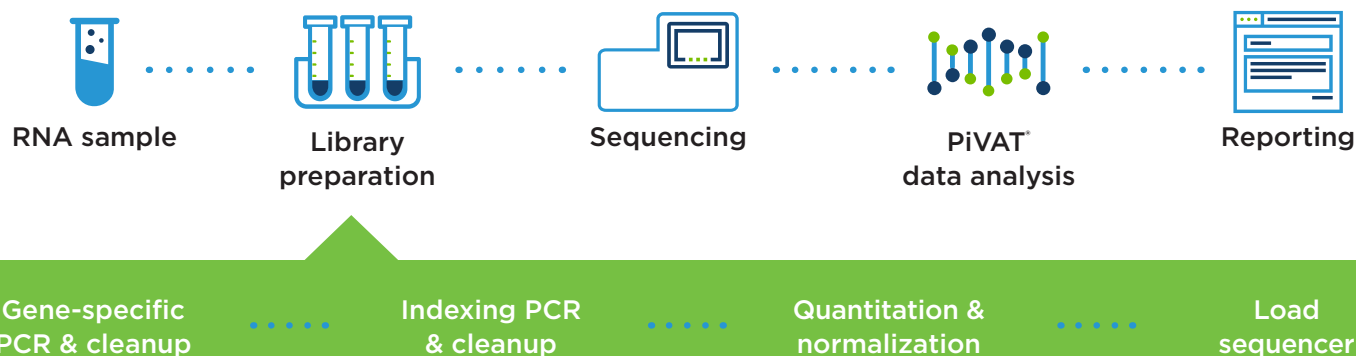
### Sensitive and robust chemistry

Achieve sensitive and robust fusion detection 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

## Simple, one-day workflow



## Panel specifications

Enrichment chemistry	Multiplex PCR
Number of pools	1 pool
Number of genes/partners	39 genes and >53 partners
Variant types	Fusion RNA transcripts; 295 fusion events plus KMT2A partial tandem duplications (PTDs)
Average amplicon size	204bp
Input RNA range	40ng minimum
Sample types	RNA from whole blood, PBMCs, WBCs, or bone marrow
Recommended Reads Per Sample	~100,000 paired-end reads
Total assay time (from RNA to sequencer)	<11 hours

## Ordering information

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

Panel	Part number	
oncoReveal® Heme Fusion Panel (24 reactions)	HRA-HM-1001-24	

Pillar Index Kit Options	Reactions	Part number
Pillar Custom Indexing Primers Kit A	32 Combinations, 96 reactions	IDX-PI-1001-96
Pillar Custom Indexing Primers Kit D	96 Combinations, 192 reactions	IDX-PI-1004-192

TO ORDER OR LEARN MORE:  
[pillarbiosci.com](http://pillarbiosci.com)

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