

oncoReveal® Heme Fusion Panel

The Pillar oncoReveal® Heme Fusion Panel is a robust NGS research 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 AI-empowered VersaTile™ Primer Design tool, for efficient single-tube target enrichment of targets from RNA.

oncoReveal® Heme Fusion Panel

5' Partner	3' Partner
ATIC	ALK
BCOR	RARA
BCR	ABL1, FGFR1, JAK2
BIRC3	MALT1
CBFA2T3	GLIS2
CBFB	MYH11
CTLA4	CD28
DEK	NUP214
EBF1	PDGFRB
EP300	ZNF384
ETV6	ABL1, ABL2, JAK2, MN1, NTRK3, PDGFRB, RUNX1
FGFR10P	FGFR1
FIP1L1	PDGFRA
FUS	ERG
ITK	SYK
KAT6A	CREBBP
KMT2A	AFDN, AFF1, ARHGEF12, CREBBP, ELL, EPS15, KMT2A, MLLT1, MLLT10, MLLT11, MLLT3, MLLT6, SEPT5, SEPT6, SEPT9, USP2
MEF2D	BCL9
NIN	PDGFRB
NPM1	ALK, CCDC28A, HAUS1, MLF1, RARA, RPP30, SETBP1, TYK2

5' Partner	3' Partner
NUP214	ABL1
NUP98	HOXA9, KDM5A, NSD1
PAG1	ABL2
PAX5	JAK2
PCM1	JAK2
PICALM	MLLT10
PML	RARA
RABEP1	PDGFRB
RANBP2	ALK
RBM15	MKL1
RCSD1	ABL2
RUNX1	MECOM, PRDM16, RUNX1T1
SET	NUP214
SSBP2	JAK2
STIL	TAL1
STRN	ALK
TBL1XR1	TP63
TCF3	PBX1
ZNF292	PNRC1

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

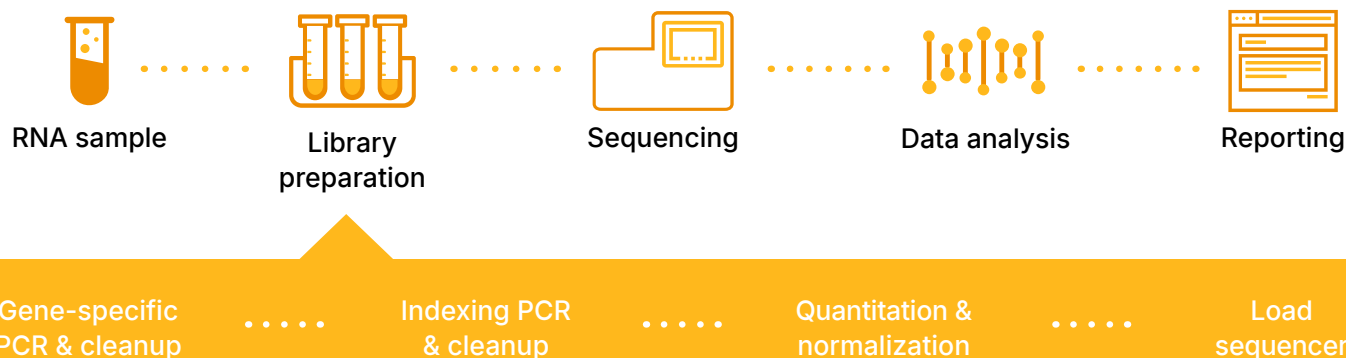
Achieve sensitive and robust fusion detection with limited RNA input or poor sample quality

Reduced fully-loaded lab costs

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

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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 <i>KMT2A</i> 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
Sequencing platforms	Illumina sequencers

PBMCs = Peripheral blood mononuclear cells; WBCs=White blood cells

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

For more information go to:
illumina.com

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