

oncoReveal™ Essential MPN Panel

The **oncoReveal™ Essential MPN Panel** is a robust assay that simultaneously tests for key mutations within the *MPL*, *JAK2*, and *CALR* genes. The panel uses proprietary Stem-Loop Inhibition-Mediated amplification (SLIMamp®) technology for efficient single-tube target enrichment.

oncoReveal™ Essential MPN Panel

Gene	(exon #)
CALR	(exon 9)
JAK2	(exons 12-15)
MPL	(exon 10)

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

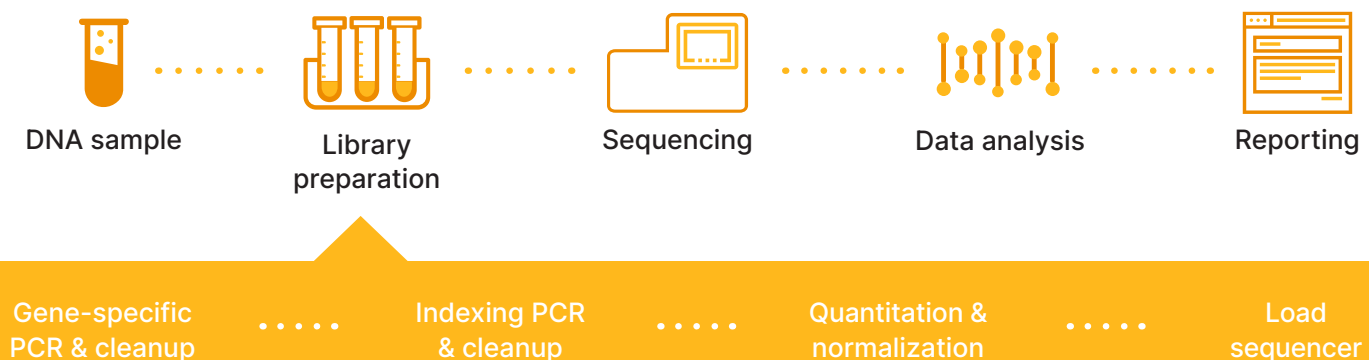
Sensitive and robust chemistry

Achieve variant detection as low as 1% VAF[†] without UIDs[‡] even with limited DNA 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 using tiled amplicons
Number of pools	1 pool
Number of genes/amplicons	3/7
Number of Targets	<i>MPL</i> exon 10, <i>JAK2</i> exons 12-15, <i>CALR</i> exon 9; 1.1kb total size
Variant types	SNVs, small and medium indels
Average amplicon size	167bp (range 110bp - 190bp)
Recommended DNA input range	10ng to 80ng (20ng recommended)
Sample types	Whole blood, PBMCs
Mapping rate	99.8% ± 0.1%
% on-target aligned reads	99.9% ± 0.0%
Coverage uniformity (% targets with >0.2X mean coverage)	100%
Total assay time (from DNA to sequencer)	<8 hours
Sequencing platforms	Illumina® sequencers

* Mapping rate, percentage of on-target aligned reads, and coverage uniformity metrics are based on internal testing performed using reference standard materials.
PBMCs = Peripheral blood mononuclear cells

Ordering information

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

Panel	Part number
oncoReveal™ Essential MPN Panel (48 reactions)	HDA-MY-1002-48

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:

illumina.com

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

Pillar®, SLIMamp®, and oncoReveal™ are trademarks of Pillar Biosciences, Inc.
Illumina® is a trademark of Illumina, Inc.
CAP No. M-GL-02030

illumina®

5200 Illumina Way
San Diego, CA 92122 USA
1.858.202.4500
info@illumina.com