Spotlight Myeloid™ Liquid Biopsy Panel

Comprehensive and exon-level hotspot coverage of 23 clinically relevant myeloid genes

The Spotlight Myeloid Panel combines content from peer-reviewed publications and other sources to offer comprehensive and exon-level hotspot coverage of 23 clinically-relevant genes implicated in acute myeloid leukemia (AML), myelodysplastic syndrome (MDS) and myeloproliferative neoplasms (MPN). Because of the high prevalence of myeloid variants in clonal hematopoiesis of indeterminate potential (CHIP) studies, this is an ideal panel for uncovering CH variants in either cell-derived or cell-free DNA samples.

Comprehensive: Covers over 12,000 COSMIC and 1,900 ClinVar mutations and generates targeted libraries compatible with Illumina® sequencing platforms.

Informative: Provides full exon coverage of TP53 with flanking intron/exon boundaries.

Powerful: Simultaneous detection of single nucleotide variants (SNV) and small insertion and deletions (indels), all within a fast and easy single-tube assay workflow.

Flexible: Add your own targets using our pre-validated primers or others content. The possibilities are endless.

Other key features include:

- Robust performance on cell-free DNA and FFPE samples starting with as little as 20 ng input.
- Highly sensitive detection of rare variants down to 0.1% allele frequency.
- Sequence ready libraries in just 2 hours.
- Streamlined, free analysis via Fluxion's ERASE-Seq Variant Caller.
- Compatible with all Illumina platforms.

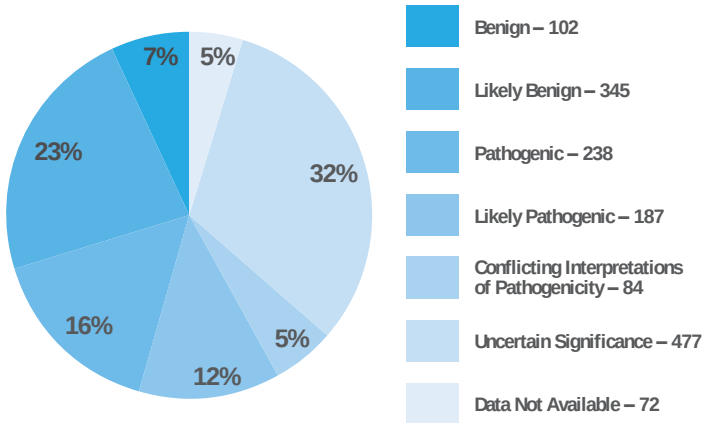

Figure 1. *ACMG and AMP-classifie v ariants of clinical significnce covered by the Myeloid Panel.*

This panel enables:

- Full exon coverage of TP53
- Compatibility with a wide range of samples
- Free data analysis using the proprietary ERASE-Seq caller
- Addition of your own custom content

Product Specifications

Feature	Specification
Input DNA Required	20 ng
Starting Sample	cfDNA, buffy coat, FFPE
Library Prep Time Required	2 hours
Number of Amplicons	478
Amplicon Size	Average 142 bp
Total Target Size	42 kb
Number of Genes	23
Gene List	ASXL1, CALR, CEBPA, CSF3R, DNMT3A, EZH2, FLT3, HRAS, IDH1, IDH2, RUNX1, SETBP1, SF3B1, SRSF2, JAK2, JAK3, KDM6A, KIT, MPL, NPM1, RUNX1, SETBP1, SF3B1, SRSF2, TET2, **TP53**, U2AF1 (Bold indicates whole CDS coverage)
Sensitivity	0.1% AF and below
Validated Sequencers	MiSeq, HiSeq, NextSeq, Iseq, NovaSeq
Average Sequencing Depth Required	15,000X per sample

Ordering Information

Description	Part Number
24-sample Spotlight Myeloid Panel, including primer pool, library kit, and adapter kit; 0.1% AF sensitivity, 20 ng input, 2 reaction tubes per sample, cloud-based ERASE-Seq variant calling included	910-0133

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

FLUXION

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