



Study of syndromes associated with hematologic neoplasms.

For diagnostic use.

Format: 24rx / Technology: NGS / Reference: IMG-363



> Characteristics

- Panel for the study of the different syndromes associated with hematologic neoplasms, such as acute myeloid leukemia (AML), chronic myeloid leukemia (CML), myeloproliferative neoplasms (MPN), and acute lymphoid leukemia (ALL).
- It allows detecting SNVs, indels, genetic fusions, CNVs, and pharmacogenetic variants from a single DNA sample.
- Bioinformatics analysis using the software Datagenomics.
- Automated generation of a report including functional and clinical classification of the variants.
- STIDs can be included: Integrated system for the identification of samples for their traceability.
- Based on high sensitivity RNA-probe technology with UMI barcoding (unique molecular identifiers).
- Mean coverage: 1400X Mean coverage after UMI analysis: 1000X. Coverage: 99.3% of the bases covered at a depth of 100X.
- Uniformity: 98.4% of bases covered at >20% mean coverage.
- Specificity: >99%. Sensitivity: >99%. Repeatability: >99.99%. Reproducibility: >99.9%

> Specifications

- **Compatible sequencers:** Illumina NextSeq
- **Number of reactions:** 24.
- **Number of samples per run:** 8 samples in a cartridge MID 150 cycles on NextSeq.
- **Sequencing:** Paired-end (2 x 75 cycles).
- **Type of sample:** DNA from peripheral blood and bone marrow.
- **Amount of input DNA:** 50-100 ng.
- **Limit of detection:** SNVs and Indels: 2%, CNVs: 20%, and copy losses or gains: 10%
- Fully automated panel for Magnis NGS Prep System Dx equipment.
- CE-IVD and analysis software labeling.



For more information,
please visit our website

> Composition of the Haematology OncoKitDx

■ Sequencing of full exonic region for 76 genes:

ARID5B	CDKN2B	ETNK1	IKZF1	NFE2	PTK2B	SRSF2
ASXL1	CEBPA	ETV6	IL7R	NOTCH1	PTPN11	STAG1
ASXL2	CHIC2	EZH2	JAK1	NPM1	RAD21	STAG2
ATRX	CREBBP	FBXW7	JAK2	NR3C1	RB1	STAT5B
BCOR	CSF3R	FLT3	JAK3	NRAS	RUNX1	TET2
BCORL1	CSNK1A1	GATA1	KIT	P2RY8	SETBP1	TP53
BLNK	CUX1	GATA2 (+14)	KMT2A	PAX5	SF3B1	TYK2
BRAF	DDX3X	GATA3	KMT2C	PHF6	SH2B3	U2AF1
CALR	DDX41	HAVCR2	KRAS	PIGA	SMC1A	WT1
CBL	DNMT3A	IDH1	MPL	PPM1D	SMC3	ZRSR2
CDKN2A	EP300	IDH2	NF1	PTEN	SRP72	

■ Capture of 27 fusion genes in any of their potential rearrangements:

(inclusion of intronic regions described as breakage points in the literature)

ABL1	CBFB	FGFR1	MEF2D	NUP214	RARA	STIL
ABL2	CSF1R	FUS	MNX1	NUP98	RBM15	TAL1
BCR	EPOR	JAK2	MYH11	PDGFRA	RUNX1	TCF3
CBFA2T3	ETV6	KMT2A	NPM1	PDGFRB	SET	

- Detection of CNVs throughout the whole genome (detection of hypo- and hyperploids) or in a whole gene included in the panel. Validation of results and detection of copy-neutral LOH through a low-density SNP array throughout the genome.

■ Detection of pharmacogenetics-related variants:

ABCB1	CYP2C9	MTHFR	NUTD15	SLCO1B1
CEP72	ITPA	MTRR	PNPLA3	TPMT

> Added value

- Technical support from first protocol implementation, both online and on-site. All protocols will be fine-tuned in collaboration with laboratory personnel.
- Clinical support or genetic counseling, with clinical geneticists available to answer any clinical questions.
- Possibility of externalizing 10% of the samples to our laboratory at the same price during periods of excess laboratory workload or urgent deadlines.

Contact our oncology team for clinical counseling on this product:
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