LUCENCE

Swift Sensitive Surveillance

Because Cure Matters

HemeMARK™ is a comprehensive next-generation sequencing (NGS) assay for ultrasensitive biomarker detection in haematological malignancies. HemeMARK™ examines 72 genes *(including CEBPA)*, 20 RNA fusions, 8 CNVs and 6 MSI.

How HemeMARK™ Helps

Initial Diagnosis	- Informs Diagnosis - Identifies Treatment Targets - Provides Prognosis
Treatment	- Monitoring of Treatment Response - Minimal Residual Disease (MRD) detection
Post-Treatment	- Minimal Residual Disease (MRD) surveillance - Resistance Mutation Profiling

Method
Ultra-deep mirror barcode amplicon-based NGS

Sample Requirement
2 Streck tubes of peripheral whole blood or
1 EDTA tube of Bone marrow aspirate

Turnaround time
2 Calendar weeks

Gene List

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SNVs/ Indels

ABL1	*CCR4*	*FBXW7*	*JAK3*	*PPM1D*	*TCF3*
ANKRD26	*CD79B*	*FGFR3*	*KIT*	*PTPN11*	*TERT*
ASXL1	*CDKN2A*	*FLT3*	*KRAS*	*RAD21*	*TET2*
ATM	*CDKN2B*	*FOXO1*	*MAP2K1*	*RHOA*	*TP53*
B2M	*CEBPA*	*GATA1*	*MPL*	*RIT1*	*U2AF1*
BRAF	*CREBBP*	*GATA2*	*MYC*	*RUNX1*	*WT1*
BTG1	*CSF3R*	*HRAS*	*MYD88*	*SETBP1*	*XPO1*
BTG2	*CXCR4*	*ID3*	*NOTCH1*	*SF3B1*	
BTK	*DDX41*	*IDH1*	*NOTCH2*	*SGK1*	
CALR	*DNMT3A*	*IDH2*	*NPM1*	*SOCS1*	
CBL	*ERG*	*IKZF1*	*NRAS*	*SRSF2*	
CCND1	*ETV6*	*IKZF3*	*PHF6*	*STAG2*	
CCND3	*EZH2*	*JAK2*	*PLCG1*	*STAT3*	

CNV

CDKN2A	*CDKN2B*	*FLT3*	*IKZF1*	*MYC*	*NRAS*
TET2	*TP53*				

RNA Fusions

ABL1#	*ETV6*	*KMT2A*	*NUP214*	*RARA*	
BCR-RET	*FGFR1*	*NTRK1*	*PDGFRA*	*RUNX1*	
CBFB-MYH11	*JAK2*	*NTRK2*	*PDGFRB*	*STIL-TAL1*	
CUX1	*KAT6A*	*NTRK3*	*PICALM-MLLT10*	*TCF3*	

MSI

BAT25	BAT26	NR21	NR24	NR27	MONO27

*Targeted regions are selected for sequencing to maximise detections of known hotspot mutations. List available on request.
#Detecting major isoforms of *BCR-ABL1* fusions, including p190, p210 and p230.

	LOD Mutant Allele Frequency	Sensitivity	Specificity
Single Nucleotide Variants (SNVs)	> 0.05 %	> 92 %	> 99 %
Insertions/ Deletions (Indels)	> 0.05 %	> 91 %	> 99 %
RNA Fusions	10 copies	> 97 %	> 99 %

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