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

Information for non-US medical professionals only

Gene List

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SNVs/ Indels

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

CNV

CDKN2A
CDKN2B
FLT3
IKZF1
MYC
NRAS
TET2
TP53

RNA Fusions

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