GTC -Hematology Fusion-Expression Profile

This test provides clinically relevant information on Fusion/translocations and expression of various genes that are relevant in hematologic neoplasms. This assay is designed to detect various translocations involving ABL1, RUNX1, BCL2, RARA, PAX5, JAK2, CBFB, NUP98 and other genes involved in leukemia, lymphoma and myeloma.

Specimen Requirements:

-Bone marrow: 2 mL. EDTA tube is preferred.

-Peripheral blood: 5 mL. EDTA tube is preferred.

-Fresh Tissue

-FFPE: 1 H&E slide and 6-10 unstained slides, 5-7 microns of BM clot or tissue fixed with 10% NBF fixative. Alternatively, the FFPE block of the BM clot can be sent for sectioning in our Lab.

Shipping:

Ship using cold pack. The cold pack should not directly contact Blood or BM specimen. Ship As soon as sample collected with overnight delivery.

Turn Around Time:

7-10 days

Tested Genes

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| **Fusion/Expression** |
| ABL1 | ALK | BRAF | CREBBP | EPOR | ETV5 | FGFR2 | FOXO1 | JAK1 | MAP3K1 | NOTCH1 | NUP214 | PCM1 | PICALM | RET | RUNX1T1 | TCF3 |
| ABL2 | BCL1 | CBFB | CRLF2 | ERG | ETV6 | FGFR3 | FUS | JAK2 | MECOM | NTRK1 | NUP98 | PDGFRA | PML | RHOA | SS18 | TCF3 |
| AKT3 | BCL2 | CBL | CSF1R | ETV1 | EWSR1 | FIP1L1 | GLI1 | KMT2A | MYC | NTRK2 | P2RY8 | PDGFRB | PTK2B | ROS1 | STAT6 | TFG |
| ALK | BCL6 | CIC | EGFR | ETV4 | FGFR1 | FLT3 | IKZF3 | KRT18P6 | MYH9 | NTRK3 | PBX1 | PD-L1 | RARA | RUNX1 | TAL1 | TYK2 |