



LABORATORY REPORT



Reg. No	: 30200200118	Reg. Date	: 18-Feb-2023 10:33
Name	: RAVICHANDRAN	Collected on	: 18-Feb-2023 10:33
Sex/Age	: Male / 55 Years	Approved Date	: 28-Feb-2023 17:27
Ref. By	:	Tele. No	: 9833253102
Location	: LILAC INSIGHTS PVT. LTD. @ MUMBAI	Dispatch At	:

Please find detailed report of NGS Oncomine Myeloid GX V2 Assay(RNA only) in the following pages.

----- End Of Report -----

Dr. Neeraj Arora
M.D (Path), PDF (Mol Haemat),
PDF (Haematopath)
22396

Patient Details

Patient Name	RAVICHANDRAN	Sample Id/LabID	30200200118
Gender	Male	Sample Type	Bone Marrow
DOB/AGE	55 Yrs	Date of Sample Collection	18-Feb-2023
Ref.By	LILAC INSIGHTS PVT. LTD.	Date of Receipt	18-Feb-2023
		Date of Report	22-Feb-2023

NGS Oncomine Myeloid GX V2 Assay (Only RNA)

Clinical Details:

?? Hemolysis, To rule out Myeloid Malignancy

RESULT

NEGATIVE:

- No Fusion Identified.

Relevant Biomarkers

No biomarkers associated with relevant evidence found in this sample

Comments:

These findings should be correlated with other clinical and laboratory tests like CBC, Bone marrow aspirate, biopsy, flowcytometry for a definite conclusive interpretation.

Methodology

Nucleic acid (RNA) was extracted from whole blood EDTA sample, using standard Qiagen nucleic acid isolation kits. Automated library preparation and sequencing run was performed using Oncomine myeloid assay GX v2 on Genexus platform as per user manual. Generated data was analyzed using on board analysis software with default filter chain. Default filter chain is optimized for reporting detected variants with the Oncomine™ Myeloid Assay GX. This filter chain provides results for INDELS and SNV variant types, and minor allele frequencies between 0.0 and 1.0E-6 based on 5000Exomes and ExAC annotation source databases that have homopolymer lengths less than or equal to 7 and allele frequencies between 0.05 and 1.0.

Variant Classification



- **Pathogenic:** The pathogenic variant are the one which is believed to account for the symptoms. It increases an individual's susceptibility or predisposition to a certain disease or disorder. This mutation is always included in results section of report.

- **Likely Pathogenic:** The likely pathogenic variant are the one which most likely have harmful effect but, there is insufficient evidence that a variant is the definite cause for symptoms. This mutation is always included in results section of report

- **Variant of Uncertain Significance:** The Variant of Uncertain Significance (VUS) are the one which have limited and/or conflicting evidence regarding pathogenicity. Its exact effect on gene function is not known. With more information available over time, a VUS may be reclassified as likely pathogenic or likely benign. This mutation is always included in results section of report.

- **Likely benign:** The likely benign variants are the one which are most likely not associated with disease risk. However, additional evidence is needed to confirm this assertion. This mutation is not included in report

- **Benign:** The benign variants are the one which are represented by alteration in gene compare to wild-type allele but it is not associated with disease risk. This mutation is not included in report.

Evidence-based variant Categorization

Tier I	Variants with strong clinical significance	Level A evidence	FDA-approved therapy included in professional guidelines
		Level B evidence	Well-powered studies with consensus from leaders in the field
Tier II	Variants with potential clinical significance	Level C evidence	FDA-approved therapies for different tumor types or investigational therapies. Multiple small published studies with some consensus
		Level D evidence	Preclinical trials or few case reports without consensus.
Tier III	Variants of unknown clinical significance		Not observed at significant allele frequency in the general or specific subpopulation databases, or pan-cancer or tumor-specific variant databases. No convincing published evidence of cancer association

Genes Assayed

Genes Assayed for the Detection of Fusions

ABL1, ALK, BCL2, BRAF, CCND1, CREBBP, EGFR, ETV6, FGFR1, FGFR2, FUS, HMGA2, JAK2, KMT2A, MECOM, MET, MLLT10, MLLT3, MYBL1, MYH11, NTRK3, NUP98, NUP214, PDGFA, PDGFRB, RARA, RBM15, RUNX1, TCF3, TFE3

Genes Assayed for Expression

BAALC, MECOM, MYC, SMC1A, WT1

Limitations and Disclaimer

1. This test was developed and its performance characteristics determined by Unipath Specialty Laboratory Ltd, Ahmedabad. It has not been cleared or approved by the US Food and Drug Administration and NABL.
2. This NGS test used does not allow definitive differentiation between germline and somatic variants. However, variants with variant allele frequency at nearly 50% or 100% should be considered Germline mutation. To rule out germ line mutations, repeat analysis using peripheral blood/saliva sample is recommended.
3. Certain genes may not be covered completely, and few mutations may not be detected in the presence of pseudogenes or in repetitive or homologous regions.
4. False negative results may be due to sampling issues, errors in sample handling, mislabeling, transportation issues, technical limitations of the assay and mutations frequency below the limit of detection of the assay, i.e., 5% for SNVs and 10% for short indels. It is also possible some complex insertion/deletion variants may not be identified.
5. Sanger confirmation of reported mutations is available on request with additional charges.
6. This test is not intended to detect minimal residual disease.
7. Results of this test need be interpreted within the context of clinical findings and other relevant clinical and laboratory data and should not be used alone.

Report Signed by:



DR. SPANDAN CHAUDHARY, Ph.D
(Sr. Scientist, NGS Division)



DR. EKTA JAJODIA, MD (Path.),
PDF (Mol. Hemat), Consultant Pathologist



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Lab Director