

Accession ID:	12345
Sample Type:	Plasma
Patient's Name:	Demo-report
Gender/Age:	Male/



CTDNA COLORECTAL PANEL

Data Uploaded On:	01/08/2025	Report Generated On:	01/08/2025
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CANCER TYPE:

colorectal cancer

RESULTS:

List of clinically significant mutations (CSM)

Variants of strong clinical significance:

GENE	VAF	FDA Approved Drugs		
		Responsive	Resistance	Total Clinical Evidence
PIK3CA (p.His1047Arg)	25.12%			

Technical Information:

Variant	Depth	Genomic location	VAF
PIK3CA(NM_006218.4);c.3140 A>G	Total: 3097 Alt: 778	chr3:179234297	25.12

Gene summary: Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit alpha (PIK3CA), activates PI3K-AKT-mTOR signaling pathway to promote cell survival, proliferation, growth and motility. PIK3CA is among the most commonly mutated genes in cancer, and PIK3CA activating mutations have been identified in a number of tumor types such as colon cancer, breast cancer, mammary angiosarcoma, endometrial cancer, ovarian cancer, anaplastic thyroid cancer, glioblastoma, and skin cancer. PIK3CA amplification has been observed in esophageal adenocarcinoma and in lung cancer. Somatic mosaicism in PIK3CA, leading to postzygotic activating mutations can cause CLOVE syndrome, megalencephaly-capillary malformation-polymicrogyria (MCAP) syndrome and CLAPO syndrome

Therapeutic Summary:

Drug	Biomarker	Resistance/Responsive	Level	Clinical Indication

Recommendations	
<ul style="list-style-type: none"> Genetic counseling is advised for interpretation on the consequences of the variant(s). If results obtained do not match the clinical findings, additional testing should be considered as per referring clinician's recommendation. Genetic test results are reported based on the recommendations of Association for Molecular Pathology, American Society of Clinical Oncology, and College of American Pathologists Sanger validation is recommended for the above listed variants. The significance/classification of the variant(s) may change based on genetic testing in the parents and other family members. Data revaluation performed upon the up gradation of databases used and results may vary in accordance. 	
AMP-ASCO-CAP CLASSIFICATION CRITERIA	Methodology

Limitations	Disclaimer
<ul style="list-style-type: none"> Genetic testing is an important part of the diagnostic process however it may not always give a definitive answer. In some cases, a genetic variant may be missed due to the limitations in existing medical knowledge and testing technology. Accurate interpretation of test results is dependent on the availability of biological & medical information (clinical history) of the family, failing to this may leads to incorrect result interpretation and diagnosis. Test results are interpreted in the context of clinical findings, available scientific evidences, family history and other laboratory data. The variation(s) which is/are potentially relevant – 	<ul style="list-style-type: none"> The interpretation of variants in this report is performed to the best knowledge of the scientific & medical information available at the time of reporting. The classification of variants is based on AMP-ASCO-CAP guidelines. As of the inherent technological limitations of the sequencing assay, some of the coding regions can't be properly sequenced, so, variations in these regions may not be identified & interpreted. It is possible that variants not identified by the assay may be associated with the provided phenotypes of the patient. It is possible due to insufficient phenotypic

<p>significant related to the patient's provided medical history is/are reported.</p> <ul style="list-style-type: none"> Genetic testing is highly accurate but rarely inaccurate results may occur for various reasons like mislabeling of samples, inaccurate clinical/medical family history, rare technical errors or unusual circumstances such as bone marrow transplantation, blood transfusion or the presence of change(s) in such a small percentage of cells that may not be detectable (mosaicism). 	<p>information, a gene – variant may be present in data but not selected for analysis and interpretation.</p> <ul style="list-style-type: none"> The mutations have not been confirmed by Sanger sequencing. Genes2Me clarify that the generated report(s) doesn't provide any kind of diagnosis or opinion or recommendation for any disease and its cure in any manner. It is therefore recommended that the patient and/or the guardian(s) of the patient must take the consultation of the clinician or a certified physician or doctor for further course of action. If the provided material quality and/or quantity not up to the desired level, further procedures will be completed only after getting confirmation from referring clinician/physician only, so, in that case, test(s) result(s) may be misleading or even wrong, therefore, Genes2Me hereby disclaims all liability arising in this connection with the test(s) and report(s). The analysis pipeline is developed in-house and the performance characteristics of this analysis are determined by Genes2Me only. This test result should be used as a reference by the healthcare provider for diagnosis and development of treatment plan. The clinically significant mutations enlisted in this report are provided as a professional service, and are not reviewed or approved by the FDA.
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References

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***For any further technical queries please contact at contact@genes2me.com**