

Test Description

The MolQ Liquid Precision Panel includes 50 genes, involving hotspot regions and 3159 unique variants, applicable to a wide range of tumor types for detection of SNV (single and multiple nucleotide variation), Insertion-Deletion, Copy Number Variation (CNV), and gene Fusions. Fusion and splice variants are detected in RNA.

Patient Demographic

Name: Ms. Omkali Devi Sex: Female Date of Birth/Age: 65 years Disease: Pancreatic Carcinoma

PATIENT	REPORT DATE	BOOKING ID
Omkali Devi	28 Dec 2023	#012312130051

Clinician

Clinician Name: Dr Amit Verma Medical Facility: Dr AV Institute of Personalized Cancer Therapy and Research Pathologist: Not Provided

Specimen

Booking ID: 012312130051 Sample Type: Blood Tumor Content Percentage: NA Date of Collection: 13-12-2023 Date of Booking: 13-12-2023

CLINICAL SYNOPSIS

Omkali Devi, is a known case pancreatic carcinoma. She has been evaluated for pathogenic variations in the genes listed in Appendix 2.

RESULT SUMMARY

Variants detected as per NCCN Guidelines: No clinically relevant alteration detected.

Other variants detected:

TP53 mutation (p.Arg196Ter, VAF= 0.1%) present in the filtered data.

Disclaimer: This variant was present in filtered data and included in this report based on its copresence in solid and discussion with clinician.

Note: The sequencing was performed on 26.6 ng of cfTNA in the given specimen. The average coverage of sequencing was 45447 in this sample.

RESULTS

No clinically relevant alteration was detected.

RELEVANT PANCREATIC CARCINOMA FINDINGS

Gene	Findings	Gene	Findings
BRAF	None detected	NTRK2	None detected
KRAS	None detected	NTRK3	None detected
NTRK1	None detected	RET	None detected

RELEVANT BIOMARKERS

No biomarkers associated with relevant evidence.

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VARIANT OF UNKNOWN SIGNIFICANCE (VUS)

Not present.

RECOMMENDATIONS

- Genetic counselling 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 recommendations.

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Jatinder Kaur, PhD Head, Molecular Biology & Genomics

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Dr. Gulshan Yadav, MD Head, Pathology



Method

APPENDIX 1: TEST METHODOLOGY

Circulating cell-free total nucleic acid (cfTNA) were isolated from samples using the MagMAX Cell-Free Total Nucleic Acid Isolation Kit. Quantity and quality is checked by Qubit assay and Tape station, respectively. After quality check the isolated and purified sample was directly loaded on Ion Torrent Genexus Next Generation Sequencer and subjected to automated library preparation and template preparation followed by in-depth sequencing.

It utilizes unique molecular tags to enable high sensitivity detection of variants. Analysis is done using Ion Torrent Reporter Software, the data is visualized on Integrative Genomics Viewer (IGV) and analyzed. The final report is generated using Oncomine curated knowledgebase reporter and includes clinical trials information continuously being updated for the best of the patient management as per clinical guidelines.

DISCLAIMER

- This report was generated using the materials and methods as recommended which required the use of quality reagents, protocols, instruments, software, databases and other items, some of which were provided or made accessible by third parties. A defect or malfunction in any such reagents, protocols, instruments, software, databases and/or other items may compromise the quality or accuracy of the report.
- The report has been created based on, or incorporated inferences to, various scientific manuscripts, references, and other sources of information, including without limitation manuscripts, references, and other sources of information that were prepared by third parties that describe correlations between certain genetic mutations and particular diseases (and/or certain therapeutics that may be useful in ameliorating the effects of such diseases). Such information and correlations are subject to change over time in response to future scientific and medical findings. MolQ Laboratory makes no representation or warranty of any kind, expressed or implied, regarding the accuracy of the information provided by or contained in such manuscripts, references, and other sources is later determined to be inaccurate, the accuracy and quality of the Report may be adversely impacted. MolQ Laboratory is not obligated to notify you of any of the impact that future scientific or medical findings may have on the report.
- The report must always be interpreted and considered within the clinical context, and a physician should always consider the report along with all other pertinent information and data that a physician would prudently consider prior to providing a diagnosis or developing and implementing a plan of care for the patient. The report should never be considered or relied upon alone in making any diagnosis or prognosis. The manifestations of many diseases are caused by more than one gene variant, a single gene variant may be relevant to more than one disease, and certain relevant gene variants may not have been considered in the report. In addition, many diseases are caused or influenced by modifier genes, epigenetic factors, environmental factors, and other variables that are not addressed by the report. This report is based on a Next Generation Assay which does not distinguish between a somatic and a germline variant. If germline variant is in question, further testing is recommended. The report provided by MolQ Laboratory is on a "as is" basis. MolQ Laboratory be liable for any actual damages, indirect damages, and/or special or consequential damages arising out of or in any way connected with the Report, your use of the report, your reliance on the report, or any defect or inaccurate information included within the report.
- Medical knowledge and annotation are constantly updated and reflects the current knowledge at the time.
- Due to inherent technology limitations of the assay, not all bases of the exome can be covered by this test. Accordingly, variants in regions of insufficient coverage may not be identified and/or interpreted. Therefore, it is possible that certain variants are present in one or more of the genes analyzed, but have not been detected. The variants not detected by the assay that was performed may/ may not impact the phenotype.
- It is also possible that a pathogenic variant is present in a gene that was not selected for analysis and/or interpretation in cases where insufficient phenotypic information is available.
- The report shall be generated within turnaround time (TAT), however, such TAT may vary depending upon the complexity of test(s) requested. MolQ Laboratory under no circumstances will be liable for any delay beyond afore mentioned TAT.
- It is hereby clarified that the report(s) generated from the test(s) do not provide any diagnosis or opinion or recommends any cure in any manner. MolQ Laboratory hereby recommends the patient and/or the guardians of the patients, as the case may be, to take assistance of the clinician or a certified physician or doctor, to interpret the report(s) thus generated. MolQ Laboratory hereby disclaims all liability arising in connection with the report(s).
- In a very few cases genetic test may not show the correct results, e.g. because of the quality of the material provided to MolQ Laboratory. In case where any test provided by MolQ Laboratory fails for unforeseeable or unknown reasons that cannot be influenced by MolQ Laboratory in advance, MolQ Laboratory shall not be responsible for the incomplete, potentially

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misleading or even wrong result of any testing if such could not be recognized by MolQ Laboratory in advance.

- A negative value in liquid biopsy does not mean true absence of mutation. It may not be detectable in the blood sample but may still be positive in tissue biopsy.
- This is a laboratory developed test and the development and the performance characteristics of this test was determined by reference laboratory as required by the CLIA 1988 regulations. The report, and the tests used to generate the Report have not been cleared or approved by the US Food and Drug Administration (FDA). The FDA has determined that such clearance or approval is not necessary. The test results have scientifically shown to be clinically useful.



APPENDIX 2: GENE LIST WITH COVERAGE

		DNA	A Hotspots		
AKT1	AKT2	AKT3	ALK	AR	ARAF
BRAF	CDK4	CDKN2A	CHEK2	CTNNB1	EGFR
ERBB2	ERBB3	ERBB4	ESR1	FGFR1	FGFR2
FGFR3	FGFR4	FLT3	GNA11	GNAQ	GNAS
HRAS	IDH1	IDH2	KIT	KRAS	MAPK1
MAPK2	MET	MTOR	NRAS	NTRK1	NTRK2
NTRK3	PDGFRA	<i>РІКЗСА</i>	PTEN	RAF1	RET
ROS1	SMO	TP53			
CNVs ALK AR CD274 CDKN2A EGFR ERBB2					
ALK ERBB3	AR FGFR1	CD274 FGFR2	CDKN2A FGFR3	KRAS	ERBB2 MET
PIK3CA	PTEN	TUTAL	TUTAS	INAS	
Inter-genetic Fusions					
ALK	BRAF	ESR1	FGFR1	FGFR2	FGFR3
MET	NRG1	NTRK1	NTRK2	NTRK3	NUTM1
RET	ROS1	RSPO2	RSP03		
Intra-genetic Fusions					
AR	EGFR	MET			