Priyanka Pathinayake

AGE: 54 years | **Gender:** Female | **Coupon/UID:** NA **/** NA

Diagnosis: Ovarian Neoplasms

MEDGENOME

MGM455 : Oncotrack Ultima - Liquid Biopsy test by NGS (SNVs & InDels)

Report Details		Specimen Information		Ordering Clinician	
Sample ID / Order ID:	9345268 / 1423314	**Specimen Site:**	NA	**Clinician:**	Dr. T. Skandarajah
Collection Date:	19th August 2025	**Specimen Received:**	Blood in streck tube	**Affiliation:**	Aegle Omics Private Limited
Date Received:	22nd August 2025	**Specimen Tested:**	Blood in streck tube	**Serviced By:**	18718
Report Date & Time:	10th Sep 2025 16:44 PM	**Tumor Content (%):**	NA	**Report Status:**	Final

Clinical Summary: High grade serous carcinoma of right ovary, FIGO Stage IA; HRD Positive

TEST RESULT SUMMARY

Next Generation Sequencing (NGS) Test Result

Result - NEGATIVE				
NO CLINICALLY RELEVANT VARIANT/S DETECTED				
AMP Classification^	**CDS variant details**	**Interpretation**	**Treatment Recommendations**	**$Treatment Response**
No clinically significant variants detected				

^Refer to Glossary section for the classification criteria details.

$Drug Approvals are based on US-FDA Guidelines. Kindly refer to local guidelines if required.

ADDITIONAL BIOMARKERS DETECTED

This section provides information about variants that do not have any therapeutic value. However, these variants may or may not have a likely oncogenic effect.

No other biomarkers that warrants to be reported was detected

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AMP-ASCO-CAP CLASSIFICATION CRITERIA

Genetic test results are reported based on the somatic variant classification recommendations of College of American Pathologists (CAP) /American society for Clinical Oncology (ASCO)/Association of Molecular Pathologists (AMP) [PMID: 27993330] as described in the table below:

Tier	Criteria
Tier I	Variants of strong clinical significance.
Tier II	Variants of potential clinical significance.
Tier III	Variants of unknown clinical significance
Tier IV	Benign or likely benign variants

DISCLAIMER

- **Decisions regarding treatment action plan should not be solely based on these test results. These findings are highly recommended to be correlated with the patient's clinical, pathological, radiological and family history for decisions on diagnosis, prognosis, or therapeutics.**

- The therapy information provided in this report is based on FDA approved drugs data, NCCN guidelines, peer reviewed published literature, standard clinical databases, and strength of biomarker results till date. These therapies may or may not be suitable/beneficial to a particular patient. This clinical report summarizes potentially effective medications, potentially ineffective medications, and medications that may pose a higher risk of adverse reactions by mapping the patient's genetic alterations to the biomedical reference information. The report may also provide prognostic and diagnostic biomarkers detected or shown for the given disease context.The treatment recommendations for the variants classified in Tier II are not provided.

- The clinical trials information provided in this report is compiled from www.clinicaltrials.gov as per currently available data, however completeness of information provided herein cannot be guaranteed. This information should only be used as a guide and specific eligibility criteria should be reviewed thoroughly for the concerned patient. MedGenome Labs does not guarantee or promise an enrolment in any clinical trials.

- The identification of a genomic biomarker does not necessarily imply pharmacological effectiveness or ineffectiveness. The medications identified by the treating physician may or may not be suitable for use on a particular patient. Thus, the clinical report does not guarantee that any particular agent will be effective in the treatment of any particular condition. Also, the absence of a treatment option does not determine the effectiveness or predict an ineffective or safety-relevant effect of a medication selected by the treating physician.

- The classification and clinically relevant information for the reported variants is based on peer-reviewed publications, public clinical databases, medical guidelines (NCCN, ASCO, AMP) or other publicly available information and it has been ensured that the information provided is up to date at the time of report generated, however continuous updates may happen in public domains. Also, the classification of variants can change based on the updated literature evidence. Re-analysis of the results can be requested at additional cost.

- This test is performed on the patient's cfDNA sample without a paired blood sample; therefore, it may include variations which may be of germline origin. However, this test is designed and validated for the detection and reporting of somatic genomic variants only and does not discriminate between germline and somatic variants. If clinically warranted, appropriate germline testing and genetic counselling for the patient should be considered for further evaluation.

- Detection of large insertions, deletions, copy number variations, gene rearrangements and deep intronic variations are beyond the scope of this test.

- **This test has been validated at MedGenome Labs and the limit of detection (LOD) of allele fraction for SNVs and short InDels is 0.25% VAF. However, the report may include, at the discretion of laboratory director, the variants with lower allele burden having strong or potential clinical significance or those have been reported earlier in the patient.**

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- Variants with <0.1% allele fraction and variants of uncertain significance with <0.25% allele fraction are not routinely reported.However, possibility of false negative or false positive below the limit of detection of this assay cannot be ruled out.
- *Additional case specific disclaimer*: None

TEST DESCRIPTION

The MedGenome's Oncotrack Ultima is a liquid biopsy based high throughput next-generation sequencing assay to detect cancer causing genomic alterations (SNVs, Indels) in 118 tumour agnostic genes. Complete coding regions of all guideline recommended actionable genes are covered.

The test is performed on circulating free DNA (cfDNA) isolated from blood plasma (liquid biopsy). cfDNA comprises circulating tumor DNA (ctDNA) present in blood plasma that is shed from tumor tissue and is the source of tumor genetic material. Unlike traditional biopsy, liquid biopsy is non-invasive as it requires only a peripheral blood draw in Streck tube from the cancer patient. Liquid Biopsy NGS testing is very powerful clinically as it provides- (a) real-time treatment monitoring to evaluate the drug response in cancer patients, (b) early detection of acquired resistance mutations to targeted therapy, (c) detection of recurrence at early stages before significant accumulation of tumor cell mass, (d) identification of tumor heterogeneity arising due to multiple clones and hence the disease progression

TEST METHODOLOGY

Sample Type: Peripheral blood in Streck tube

Extraction and Library Preparation: cfDNA isolated from blood plasma is used to perform UMI-based target enrichment and sequencing using a custom capture kit.

Sequencing: The QC passed libraries are sequenced to a minimum depth >20000X (pre-UMI) on validated Illumina sequencing platform and compressed to >2000X (post-UMI) for variant analysis

Data Analysis: The sequences obtained are aligned to human reference genome (GRCh38/hg38) using BWA program [PMID:19451168, PMID: 23155063]. Somatic mutations are identified using UMI corrected Sention pipeline [PMID: 31481971]. Only non-synonymous and splice site variants found in the coding regions are used for clinical interpretation. The mutations are annotated using our in-house annotation pipeline (VariMAT).

Reporting: Reportable alterations are prioritized, classified, and reported based on AMP-ASCO-CAP guidelines [PMID: 27993330].

Analytical performance: A minimum of 30ng cfDNA isolated from plasma is considered as an acceptable criterion for proceeding with this testing. Analytical validation of this test in our laboratory has shown sensitivity, and specificity of 100% at Limit of Detection at 0.25% VAF.

Limit of Detection (LOD): The Limit of detection of the assay for somatic mutations is 0.25% for SNVs and short INDELs [PMID: 29379323].

The transcript used for clinical reporting generally represents the canonical transcript (according to Ensembl release 99 human gene model), which is usually the longest coding transcript with strong/multiple supporting evidence. However, clinically relevant variants annotated in alternate complete coding transcripts could also be reported. Variants annotated on incomplete, and nonsense mediated decay transcripts are not reported

§This test is developed, and its performance characteristics is determined by MedGenome Labs Ltd.

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GENES ANALYSED

Complete coding regions of 73 genes are covered (Black font) and hotspot regions of 45 genes (Blue font) are covered in this panel. All genes that are diagnostically, prognostically and therapeutically significant according to the NCCN guidelines in multiple cancer types are completely covered in this test.

SNVs/InDels							
ABL1	ABL2	AKT1	ALK	APC	AR	ARAF	ARID1A
ARID1B	ATM	ATR	ATRX	BAP1	BARD1	BRAF	BRCA1
BRCA2	BRIP1	C11orf65	CCND1	CDH1	CDK12	CDK4	CDKN2A
CDX2	CHEK1	CHEK2	CSF1R	CTNNB1	DDR2	EGFR	ERBB2
ERBB3	ERBB4	ERCC2	ESR1	EZH2	FANCL	FBXW7	FGFR1
FGFR2	FGFR3	FGFR4	FLT3	FOXA1	FOXL2	GATA3	GNA11
GNAQ	GNAS	HNF1A	HRAS	IDH1	IDH2	INPP4B	JAK1
JAK2	JAK3	KDM5C	KDM6A	KEAP1	KIT	KRAS	MAP2K1
MAP2K2	MAPK1	MET	MLH1	MPL	MSH2	MSH6	MTOR
MUTYH	MYC	MYCN	MYD88	NF1	NF2	NOTCH1	NPM1
NRAS	NTRK1	NTRK3	PALB2	PBRM1	PDGFRA	PIK3CA	PMS2
POLD1	POLE	PPP2R2A	PTCH1	PTEN	PTPN11	RAD51B	RAD51C
RAD51D	RAD54L	RAF1	RB1	RET	RHEB	RHOA	RIT1
ROS1	SETD2	SF3B1	SMAD4	SMARCB1	SMO	SPOP	SRC
STK11	TERT	TP53	TSC1	TSC2	VHL		

Note: *MET* exon 14 skipping mutations included.

CLINICAL TRIALS

The following trials are potentially best suited for your patient's indication, considering all reported treatment recommendations. See https://clinicaltrials.gov (clinical trials from NCT) or https://trialsearch.who.int (clinical trials from other registries) for more information.

Clinical trials in total : 0   **Trial countries :** IN-India, US-United States

S.No	Title	Phase and ID	Intervention	Disease	Age & Sex
		No Clinical Trials.			

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END OF REPORT

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