

Patient ID SA00175000	Patient Name TESTINGRNV, NORMAL	Birth Date 1999-03-15	Sex M	Age 26
Order Number SA00175000	Client Order Number SA00175000	Ordering Physician CLIENT, CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 28 Mar 2025 00:00		

MayoComplete Lung Rearrangements

Result MCR Provided diagnosis: lung adenocarcinoma	Specimen MCR Tissue, Tumor
No reportable rearrangements were detected within the analyzed regions of the tested genes listed in the method description. This assay only evaluates fusions. Testing for MUTATIONS and SMALL INSERTIONS/DELETIONS was NOT PERFORMED. If mutation testing is desired, consider MayoComplete Lung Cancer Mutations, Next-Generation Sequencing, Tumor (Mayo Test ID: MCLNM). Refer to mayocliniclabs.com or call 1-800-533-1710 for more information about specimen requirements for this test.	Tissue ID MCR 12345 Method MCR Microscopic examination is performed by a pathologist to identify areas of tumor for enrichment by macrodissection. A qualitative PCR-based assay is performed to detect rearrangements (fusions) within the ALK, ROS1 and RET genes, MET exon 14 skipping, and expression imbalance for the ALK, ROS1, RET, NTRK1, NTRK2 and NTRK3 genes. Variant nomenclature is based on build GRCh37 (hg19). For details about gene transcripts (RefSeq accession numbers), specific targeted regions of each gene, and additional information on this test, see www.mayocliniclabs.com (Test ID MCLNR).
Interpretation MCR Current data suggests that the efficacy of targeted therapies in patients with non-small cell lung cancer is limited to tumors with rearrangements/fusions in certain genes [PMID 23562183, PMID 27151654, PMID 24162815]. Thus, the absence of a targetable rearrangement/fusion within this tumor suggests that therapies may have limited value for this patient. However, the presence of actionable mutations was not excluded in this case. If clinically indicated, consider MayoComplete Lung Cancer Mutations (MCLNM) for evaluation of gene mutations.	Disclaimer 1 MCR This test cannot differentiate between somatic and germline alterations. Additional testing may be necessary to clarify the significance of results if there is a potential hereditary risk. Gene fusions (rearrangements) and expression imbalance involving the ALK, ROS1, RET, NTRK1, NTRK2, and NTRK3 genes only will be detected. This test does not detect point mutations, insertion/deletion mutations, large single or multiexon deletions or duplications, or genomic copy number variants in any of the genes tested. A negative result does not rule out the presence of a rearrangement (fusion) that may be present but below the limits of detection of this assay. Rare polymorphisms may be present that could lead to false-negative or false-positive results.
Additional Information MCR CLINICAL TRIALS Possible clinical trials of benefit for this patient can be found at the following sites: 1) ClinicalTrials.gov: www.clinicaltrials.gov/ct2/search/advanced 2) Mayo Clinic: www.mayo.edu/research/clinical-trials/ 3) National Cancer Institute: www.cancer.gov/clinicaltrials/search	

Performing Site Legend

Code	Laboratory	Address	Lab Director	CLIA Certificate
MCR	Mayo Clinic Laboratories - Rochester Main Campus	200 First Street SW, Rochester, MN 55905	Nikola Baumann Ph.D.	24D0404292



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The presence or absence of a variant may not be predictive of response to therapy in all patients.

Test results should be interpreted in the context of clinical, tumor sampling, histopathological, and other laboratory data. If results obtained do not match other clinical or laboratory findings, contact the laboratory for discussion. Misinterpretation of results may occur if the information provided is inaccurate and/or incomplete.

Reliable results are dependent on adequate specimen collection

and processing. This test has been validated on cytology slides and formalin-fixed, paraffin-embedded tissues; other types of fixatives are discouraged. Improper treatment of tissues, such as decalcification, may cause PCR failure.

Released By MCR
Ying-Chun Lo, M.D., Ph.D.

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Laboratory Notes

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This test was developed and its performance characteristics determined by Mayo Clinic in a manner consistent with CLIA requirements. This test has not been cleared or approved by the U.S. Food and Drug Administration.

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