

Patient ID SA00000784	Patient Name SAMPLEREPDMGLM, VLD20150713A0044	Birth Date 1981-01-01	Gender M	Age 34
Order Number SA00000784	Client Order Number SA00000784	Ordering Physician Client, Client	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 12 Jul 2015 14:26		

EGFR Gene, Mutation Analysis, Tumor

Result Summary

MCR

MUTATION IDENTIFIED

Result

MCR

Provided diagnosis: Non-small cell lung cancer
EGFR status: Mutant (Leu858Arg, CTG>CGG)

Interpretation

1 MCR

Current data suggest that the efficacy of EGFR-targeted therapies in patients with non-small cell lung cancer is limited to tumors with mutations in the tyrosine kinase domain (exons 18–21) of EGFR. Thus, the detection of an EGFR mutation within this tumor specimen suggests that this patient may respond to such therapies.

ADDITIONAL INFORMATION

Microscopic examination was performed by a pathologist to identify areas of tumor for enrichment by macrodissection. A PCR based assay employing allele specific amplification was used to test for the presence of specific mutations within exons 18–21 of the EGFR gene (mutations at codon G719 in exon 18; small deletions in exon 19; T790M, S768I, and small insertions in

exon 20; and L858R and L861Q in exon 21). Mutation nomenclature is based on GeneBank accession number NM_005228. Test results should be interpreted in the context of clinical findings, tumor sampling, and other laboratory data. If results obtained do not match other clinical or laboratory findings, please contact the laboratory for possible interpretation. Misinterpretation of results may occur if the information provided is inaccurate or incomplete.

Rare polymorphisms exist that could lead to false-negative or false-positive results.

Specimen

MCR

Tissue, Tumor

Tissue ID

MCR

S15–5999

Released By

MCR

EMILY LAUER

Received: 13 Jul 2015 20:20

Reported: 24 Jul 2015 12:09

Laboratory Notes

- 1 This test has been modified from the manufacturer's instructions. Its performance characteristics were 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.

Performing Site Legend

Code	Laboratory	Address
MCR	Mayo Clinic Dept. of Lab Med and Pathology	200 First Street SW, Rochester, MN 55905