

Patient Name SAMPLEREP,MLBRF A	Patient ID SA00058704	Age 46	Gender F	Order # SA00058704
Ordering Phys CLIENT,CLIENT				DOB 06/10/1966
Client Order # SA00058704	Account Information C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			Report Notes
Collected 06/02/2013 00:00				
Printed 06/05/2013 10:24				

Test	Flag	Results	Unit	Reference Value	Perform Site*
MLH1 Hypermethylation/BRAF Mutation					
RECEIVED: 06/03/2013 16:30 REPORTED: 06/05/2013 10:11					
MLH1 Hypermethylation					
Specimen		Tissue-Tumor			MCR
Specimen ID		1062027			MCR
Order Date		04 Jun 2013 11:31			MCR
Comment					MCR
Analysis has been completed. Refer to the MLH1 Hypermethylation and BRAF (V600E) Mutation Interpretation for results and interpretation.					
Consultant					MCR
Melody Elizabeth Kimball					
Report Date		05 Jun 2013 10:08			MCR
BRAF Mutation Analysis (V600E)					
Specimen		Tissue-Tumor			MCR
Specimen ID		1062027			MCR
Order Date		04 Jun 2013 11:31			MCR
Comment					MCR
Analysis has been completed. Refer to the MLH1 Hypermethylation and BRAF (V600E) Mutation Interpretation for results and interpretation.					
Consultant					MCR
Melody Elizabeth Kimball					
Report Date		05 Jun 2013 10:08			MCR
MLH1 Hyp/BRAF (V600E) Mut Interp					
Specimen		Tissue-Tumor			MCR
Specimen ID		1062027			MCR
Order Date		04 Jun 2013 11:31			MCR
Reason For Referral					MCR
Tumor demonstrates loss of MLH1 protein expression. Determine the likelihood of a germline MLH1 mutation versus the somatic/epigenetic inactivation of MLH1.					
Method					MCR
A PCR based assay is used to test tumor DNA for the presence of MLH1 promoter hypermethylation and tumor DNA for the presence of the V600E (Val600Glu) mutation in the BRAF gene.					
MLH1 Results					MCR
Tumor tissue: Positive for MLH1 promoter hypermethylation.					
BRAF Results					MCR
The BRAF V600E mutation was detected.					
Interpretation					MCR
The loss of MLH1 protein expression observed in this patient's tumor is most likely due to the somatic/epigenetic inactivation of MLH1 (promoter hypermethylation). In					

Performing Site Legend on Last Page of Report

Patient Name SAMPLEREP,MLBRF A	Collection Date and Time 06/02/2013 00:00	Report Status Final
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* Report times for Mayo performed tests are CST/CDT

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addition, the BRAF V600E mutation is rarely detected in patients with a germline MLH1 gene mutation. Taken together, these results suggest that a germline mutation within the MLH1 gene is very unlikely for this patient.

To date, our data suggests that the possibility of germline hypermethylation is very unlikely in tumors showing MLH1 promoter hypermethylation along with the BRAF mutation.

A genetic consultation may be of benefit.

CAUTIONS:

Test results should be interpreted in context of clinical findings, family history, 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.

Laboratory developed test.

Consultant

Emily Christine Lauer

Report Date

04 Jun 2013 15:11

MCR

MCR

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director:
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Patient Name SAMPLEREP,MLBRF A	Collection Date and Time 06/02/2013 00:00	Report Status Final
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