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|--|---|------------------|--------------------------|------------------------------|
| Patient Name SAMPLEREP,MLH3K | Patient ID SA00057765 | Age 34 | Gender M | Order # SA00057765 |
| Ordering Phys CLIENT,CLIENT | | | DOB 06/15/1978 | |
| Client Order # SA00057765 | Account Information | | | Report Notes |
| Collected 05/24/2013 00:00 | C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901 | | | |
| Printed 06/27/2013 12:45 | | | | |

| Test | Flag | Results | Unit | Reference Value | Perform Site* |
|------|------|---------|------|-----------------|---------------|
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MLH3 Gene, Known Mutation
RECEIVED: 05/24/2013 09:45 **REPORTED:** 06/10/2013 12:01

Reason For Referral

MCR

An MLH3 mutation was previously identified in an affected family member. Test for the presence of a mutation in the MLH3 gene.

Result

MCR

The c.2579delA mutation was NOT detected.

Interpretation

MCR

The absence of the mutation previously identified in an affected family member may reduce this individuals risk for cancer related to MLH3. The clinical phenotype that is observed in this patient might be due to disease causing mutations in other genes.

This assay does not rule out the presence of other mutations in this gene or in other genes that are associated with hereditary cancer.

A genetic consultation may be of benefit.

Unless reported or predicted to cause disease, alterations found deep in the intron or alterations that do not result in an amino acid substitution are not reported. These and common polymorphisms identified for this patient are available upon request.

CAUTIONS:

Test results should be interpreted in the context of clinical findings, family history, and other laboratory data. Errors in our interpretation of results may occur if information given is inaccurate or incomplete.

Rare polymorphisms exist that could lead to false-negative or false-positive results. If results obtained do not match the clinical findings, additional testing should be considered.

A previous bone marrow transplant from an allogenic donor will interfere with testing. Call Mayo Medical Laboratories for instructions for testing patients who have received a bone marrow transplant.

Laboratory developed test.

Performing Site Legend on Last Page of Report

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| Patient Name SAMPLEREP,MLH3K | Collection Date and Time 05/24/2013 00:00 | Report Status Final |
| Page 1 of 2 | >> Continued on Next Page >> | |

* Report times for Mayo performed tests are CST/CDT

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| Method | | DNA sequence analysis was used to test for the presence of the c.2579delA (p.N860I)fsX14) mutation in exon 2 of the MLH3 gene. Testing was performed for this specific mutation because it was previously identified in an affected family member of this individual. Mutation nomenclature is based on GenBank accession number NM_001040108.1. | | | MCR |
| Specimen | | Blood | | | MCR |
| Reviewed By | | Matthew John Ferber PhD | | | MCR |
| Release Date | | 10 Jun 2013 12:00 | | | MCR |

* Performing Site:

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|-----|---|---------------|
| MCR | Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905 | Lab Director: |
|-----|---|---------------|

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| Patient Name SAMPLEREP,MLH3K | Collection Date and Time 05/24/2013 00:00 | Report Status Final |
| Page 2 of 2 | | ** End of Report ** |

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