MAYO CLINIC
Mayo Medical Laboratories

Laboratory Service Report 1-800-533-1710

Patient Name	Patient ID	Age	Gender	Order #
SAMPLEREPORT,AXINS	SA00058768	25	M	SA00058768
Ordering Phys CLIENT,CLIENT				**DOB** 06/15/1987
Client Order # SA00058768	**Account Information**			**Report Notes**
Collected 06/05/2013 00:00	C7028846-DLMP Rochester 3050 Superior Drive Rochester, MN 55901			
Printed 06/28/2013 14:33				

Test	Flag	Results	Unit	Reference Value	Perform Site*

AXIN2 Gene, Full Gene Analysis
RECEIVED: 06/05/2013 10:24 **REPORTED:** 06/10/2013 13:02

Reason For Referral MCR

Possible diagnosis of oligodontia-colorectal cancer syndrome. Test for the presence of a mutation in the AXIN2 gene.

Result MCR

The following sequence change was detected:
Exon: 8
DNA change: c.1966C>T
Amino acid change: p.R656X (Arg656X)
Classification: DELETERIOUS

Interpretation MCR

This alteration is a known deleterious mutation.

This result is consistent with a diagnosis of oligodontia-colorectal cancer syndrome for this individual. Appropriate screening procedures and/or prophylactic measures should be considered.

Since a mutation has been identified, testing of at risk family members is possible. Mutation-specific testing for oligodontia-colorectal cancer syndrome is available at Mayo Medical Laboratories by ordering AXINK/61484 AXIN2 Gene, Known Mutation. Please contact the Molecular Genetics Laboratory at 1-800-533-1710 with questions about this test.

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 context of clinical findings, family history, and other laboratory data. Misinterpretation of results may occur if the information provided is inaccurate or incomplete.

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

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Bone marrow transplants from allogenic donors will interfere with testing. Call Mayo Medical Laboratories for instructions for testing patients who have received a bone marrow transplant.					
Laboratory developed test.					
Method					MCR
Bi-directional sequence analysis was performed to test for the presence of a mutation in all coding regions and intron/exon boundaries of the AXIN2 gene. Array comparative genomic hybridization (aCGH) was used to test for the presence of large deletions and duplications. Mutation nomenclature is based on GenBank accession number; NM_004655.3.					
Array Billed?		Yes.			MCR
See COLDB, Hereditary Colon Cancer CGH Array, for billing information.					
Specimen		Blood			MCR
Reviewed By					MCR
Matthew John Ferber PhD					
Release Date		10 Jun 2013 13:00			MCR

* Performing Site:

MCR	Mayo Clinic Laboratories - Rochester Main Campus 200 First St SW Rochester, MN 55905	Lab Director: Franklin R. Cockerill, III, M.D.