

Patient ID SA00148253	Patient Name TESTINGRNV, ATLAS	Birth Date 1989-06-06	Gender F	Age 32
Order Number SA00148253	Client Order Number SA00148253	Ordering Physician CLIENT, CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 06 Oct 2021 12:00		

HEXB Gene, Full Gene Analysis

Interpretation

MCR

This result decreases the likelihood but does not rule out the presence of a variant in the HEXB gene.

Individuals may have a pathogenic variant in the HEXB gene that is not detectable by the methods utilized. Additionally, pathogenic variants in other genes not interrogated by this assay may cause a similar phenotype.

This result should be interpreted in the context of clinical findings, family history, and other laboratory testing.

A genetic consultation may be of benefit.

Result Summary

MCR

Negative

Result

MCR

No reportable variants were detected.

Test Description

MCR

Evaluation of the HEXB gene associated with Sandhoff disease

Specimen

MCR

WB Whole Blood

Resources

MCR

Disease specific information, including current therapies may be available at:

1. GeneReviews: <https://www.ncbi.nlm.nih.gov/books/NBK1116/>
2. <https://www.fda.gov/drugs>

Information regarding clinical trials, if available, can be found at the following sites:

1. ClinicalTrials.gov: <http://clinicaltrials.gov/ct2/search/advanced>

Method

MCR

Next generation sequencing (NGS) and/or Sanger sequencing was performed to test for the presence of variants in coding regions and intron/exon boundaries of the gene analyzed. The human genome reference GRCh37/hg19 build was used for sequence read alignment. At least 99% of the bases are covered at a read depth >30X. Sensitivity is estimated at >99% for single nucleotide variants, >94% for indels up to 39 base pairs, >95% for deletions up to 75 base pairs and insertions up to 47 base pairs. NGS and/or a PCR-based quantitative method was performed to test for the presence of deletions and duplications in the gene analyzed. See the Genes Analyzed field for a list of gene(s) tested.

There may be regions of genes that cannot be effectively evaluated for sequencing or deletion and duplication analysis as a result of technical limitations of the assay, including regions of homology, high GC content, and repetitive sequences. Confirmation of select reportable variants was performed by alternate methodologies based on internal laboratory criteria. See www.mayocliniclabs.com HEXBZ for details regarding genes with regions not routinely covered.

Genes Analyzed

MCR

HEXB

Disclaimer

1 MCR

Clinical Correlations

An online research opportunity called GenomeConnect (genomeconnect.org), a project of ClinGen, is available for the recipient of this genetic test. This patient registry collects de-identified genetic and health information to advance the knowledge of genetic variants. Mayo Clinic is a collaborator of ClinGen. This may not be applicable for all tests.

If testing was performed because of a clinically significant family history it is often useful to first test an affected family member. Detection of a reportable variant(s) in an affected family member would allow for more informative testing of at risk individuals.

Performing Site Legend

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

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To discuss the availability of further testing options or for assistance in the interpretation of these results, Mayo Clinic Laboratory genetic counselors can be contacted at 1-800-533-1710.

Technical Limitations

Next generation sequencing may not detect all types of genomic variants. In rare cases, false negative or false positive results may occur. The depth of coverage may be variable for some target regions, but assay performance below the minimum acceptable criteria or for failed regions will be noted. Given these limitations, negative results do not rule out the diagnosis of a genetic disorder. If a specific clinical disorder is suspected, evaluation by alternative methods can be considered.

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Additionally, low level mosaic variants may not be detected.

This test is not designed to differentiate between somatic and germline variants. If there is a possibility that any detected variant is somatic, additional testing may be necessary to clarify the significance of results.

Reclassification of Variants Policy

See www.mayocliniclabs.com

HEXBZ for information regarding the laboratory's policy for reclassification of variants.

Variant Evaluation

Variant curation is performed using published ACMG-AMP recommendations as a guideline. Other gene-specific guidelines may also be considered. Variants classified as benign or likely benign are not reported.

Results from in silico evaluation tools may change over time and should be interpreted with caution and professional clinical judgment.

Released By

Devin Oglesbee, Ph.D.

MCR

Received: 07 Oct 2021 16:13

Reported: 15 Oct 2021 13:07

Laboratory Notes

- 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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1-800-533-1710

HEXB Gene, Full Gene Analysis

HEXBZ

PATIENT NAME TESTINGRNV, ATLAS				ORDER NUMBER L107000424
PATIENT ID SA00148253	DATE OF BIRTH 06/06/1989	AGE 32 Y	SEX Female	REQUESTED BY CLIENT CLIENT
COLLECTED 10/6/2021, 12:00 PM	RECEIVED 10/7/2021, 4:13 PM	REPORTED 10/15/2021, 1:07 PM		
The collected, received, and reported dates and times on the report are in the time zone of the performing location. 7028846 MCL RochesterCampus Rochester MN 55901				CLIENT ORDER NUMBER SA00148253 CLIENT MRN SA00148253

TEST DESCRIPTION

Evaluation of the HEXB gene associated with Sandhoff disease

SPECIMEN

WB Whole Blood

RESULT SUMMARY

Negative

RESULT

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GENES ANALYZED

HEXB

DISCLAIMER

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RELEASED BY Devin Oglesbee, Ph.D.				

Code : MCR Laboratory : Mayo Clinic Laboratories - Rochester Main Campus
Lab Director : WILLIAM G MORICE, II MD, PhD CLIA Certificate : 24D0404292

Address : 200 FIRST STREET SW
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