

Client: Example Client ABC123
123 Test Drive
Salt Lake City, UT 84108
UNITED STATES

Physician: Doctor, Example

Patient: Patient, Example

DOB: [REDACTED]
Sex: [REDACTED]
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Collection Date: 01/01/2017 12:34

Mucopolipidosis Type IV (MCOLN1), 2 Variants

ARUP test code 0051448

Mucopolipidosis IV (MCOLN1), Specimen	whole Blood
Mucopolipidosis IV (MCOLN1), Allele 1	g.511_6943del *
Mucopolipidosis IV (MCOLN1), Allele 2	Negative
Mucopolipidosis IV (MCOLN1), Interp	See Note

Indication for testing: Carrier screening or diagnostic testing for mucopolipidosis type IV.

Positive: One pathogenic variant, g.511_6943del (6.4 kb deletion), was detected in the MCOLN1 gene; therefore, this individual is at least a carrier of mucopolipidosis type IV. Genetic counseling is recommended. This individual's reproductive partner should be offered screening for the disorder. At-risk family members should be offered testing to determine carrier status for the identified variant. This result has been reviewed and approved by [REDACTED]

BACKGROUND INFORMATION: Mucopolipidosis Type IV (MCOLN1), 2 Variants:
CHARACTERISTICS: Mucopolipidosis type IV is characterized by early onset of severe psychomotor delay and progressive visual impairment due to corneal clouding and retinal degeneration. Affected individuals may occasionally learn to say a few words or walk independently. While most affected individuals remain neurologically static until age 30, about 15 percent will display neurological degeneration.
INCIDENCE: 1 in 63,000 Ashkenazi Jewish individuals.
INHERITANCE: Autosomal recessive.
CAUSE: MCOLN1 pathogenic variants.
VARIANTS TESTED: g.511_6943del and c.406-2A>G.
CLINICAL SENSITIVITY: 95 percent in Ashkenazi Jewish individuals, 6 to 10 percent in other ethnicities.
METHODOLOGY: Polymerase chain reaction (PCR) and fluorescence monitoring.
ANALYTICAL SENSITIVITY AND SPECIFICITY: Greater than 99 percent.
LIMITATIONS: Variants other than g.511_6943del and c.406-2A>G will not be detected. Diagnostic errors can occur due to rare sequence variations.

This test was developed and its performance characteristics determined by ARUP Laboratories. It has not been cleared or approved by the US Food and Drug Administration. This test was performed in a CLIA certified laboratory and is intended for clinical purposes.

H=High, L=Low, *=Abnormal, C=Critical

Unless otherwise indicated, testing performed at:

ARUP LABORATORIES | 800-522-2787 | aruplab.com
500 Chipeta Way, Salt Lake City, UT 84108-1221
Jonathan R. Genzen, MD, PhD, Laboratory Director

Patient: Patient, Example
ARUP Accession: 21-349-113240
Patient Identifiers: 01234567890ABCD, 012345
Visit Number (FIN): 01234567890ABCD
Page 1 of 2 | Printed: 7/20/2022 6:47:37 AM

Counseling and informed consent are recommended for genetic testing. Consent forms are available online.

VERIFIED/REPORTED DATES

Procedure	Accession	Collected	Received	Verified/Reported
Mucopolipidosis IV (MCOLN1), Specimen	21-349-113240	12/15/2021 2:25 00 PM	12/15/2021 2:26:34 PM	12/16/2021 8:40 00 AM
Mucopolipidosis IV (MCOLN1), Allele 1	21-349-113240	12/15/2021 2:25 00 PM	12/15/2021 2:26:34 PM	12/16/2021 8:40 00 AM
Mucopolipidosis IV (MCOLN1), Allele 2	21-349-113240	12/15/2021 2:25 00 PM	12/15/2021 2:26:34 PM	12/16/2021 8:40 00 AM
Mucopolipidosis IV (MCOLN1), Interp	21-349-113240	12/15/2021 2:25 00 PM	12/15/2021 2:26:34 PM	12/16/2021 8:40 00 AM

END OF CHART

H=High, L=Low, *=Abnormal, C=Critical

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Page 2 of 2 | Printed: 7/20/2022 6:47:37 AM