

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

Physician: Doctor, Example

Patient: Patient, Example

DOB

Sex:

Patient Identifiers: 01234567890ABCD, 012345

Visit Number (FIN): 01234567890ABCD **Collection Date:** 01/01/2017 12:34

Mucolipidosis Type IV (MCOLN1), 2 Variants

ARUP test code 0051448

Mucolipidosis IV (MCOLN1), Specimen	Whole Blood
Mucolipidosis IV (MCOLN1), Allele 1	Negative
Mucolipidosis IV (MCOLN1), Allele 2	g.511_6943del *

Mucolipidosis IV (MCOLN1), Interp

See Note

Indication for testing: Carrier screening or diagnostic testing for mucolipidosis 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 mucolipidosis 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.

BACKGROUND INFORMATION: Mucolipidosis Type IV (MCOLN1),

2 Variants: CHARACTERISTICS: Mucolipidosis_type IV is characterized_by early CHARACTERISTICS: Mucolipidosis type IV is characterized by earlonset 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.

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



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

VERIFIED/REPORTED DATES					
Procedure	Accession	Collected	Received	Verified/Reported	
Mucolipidosis IV (MCOLN1), Specimen	21-354-102379	12/20/2021 10:13:00 AM	12/20/2021 10:13:46 AM	12/20/2021 10:18:00 AM	
Mucolipidosis IV (MCOLN1), Allele 1	21-354-102379	12/20/2021 10:13:00 AM	12/20/2021 10:13:46 AM	12/20/2021 10:18:00 AM	
Mucolipidosis IV (MCOLN1), Allele 2	21-354-102379	12/20/2021 10:13:00 AM	12/20/2021 10:13:46 AM	12/20/2021 10:18:00 AM	
Mucolipidosis IV (MCOLN1), Interp	21-354-102379	12/20/2021 10:13:00 AM	12/20/2021 10:13:46 AM	12/20/2021 10:18:00 AM	

END OF CHART

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