

Patient ID SA00006121	Patient Name TESTINGRN, REPORTS	Birth Date 1982-01-01	Gender F	Age 33
Order Number SA00006121	Client Order Number SA00006121	Ordering Physician CLIENT, CLIENT	Report Notes	
Account Information C7028846 DLMP Rochester		Collected 17 Dec 2015 00:00		

Fragile X Syndrome, Mol. Analysis

Result Summary

MCR

NEGATIVE

Result

MCR

Number of CGG repeats: 29 and 30 (Normal)

Interpretation

1 MCR

This result suggests that this individual is unlikely to be a carrier of fragile X syndrome. The methods described detect >99% of carriers of fragile X syndrome. Rarely, carriers of fragile X syndrome may have a non-expansion type mutation (e.g. point mutation) not detected by this assay. Please note that sex chromosome abnormalities may not be identified by this assay.

A genetic consultation may be of benefit.

ADDITIONAL INFORMATION

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.

Test results should be interpreted in the 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 false-positive results. If results obtained do not match the clinical findings, additional testing should be considered.

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.

Multiple in-silico evaluation tools were used to assist in the interpretation of these results. These tools are updated regularly, therefore changes to these algorithms may result in different predictions for a given alteration. However, the sensitivity and specificity of these tools for the determination of pathogenicity is currently unvalidated.

Reason for Referral

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Carrier screen for fragile X syndrome. Test for the presence of an expansion within the FMR1 gene.

Specimen

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WB Whole Blood

Method

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PCR-based assays were used to determine the size of the CGG repeat in the FMR1 gene. The reported number of CGG repeats is estimated to be correct to within $\pm 5\%$.

Normal: 5–44

Intermediate (Gray Zone): 45–54

Premutation: 55–200

Full mutation: >200

Released By

MCR

W. Edward Highsmith, Jr., Ph.D.

Received: 17 Dec 2015 08:40

Reported: 18 Dec 2015 08:49

Laboratory Notes

- 1 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.

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