



1-800-533-1710

FSGS/Nephrotic Syndrome Gene Panel

RFSGS

PATIENT NAME TESTINGRNV, RFSGS				ORDER NUMBER M007000442
PATIENT ID SA00153554	DATE OF BIRTH 01/10/1990	AGE 32 Y	SEX Female	REQUESTED BY CLIENT CLIENT
COLLECTED 7/7/2022, 6:00 AM	RECEIVED 7/7/2022, 2:31 PM	REPORTED 7/14/2022, 12:17 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 SA00153554 CLIENT MRN SA00153554

TEST DESCRIPTION

Evaluation of 56 genes associated with focal segmental glomerulosclerosis and nephrotic syndrome, including targeted assessment of the APOL1 G1 and G2 risk alleles.

SPECIMEN

WB Whole Blood

RESULT SUMMARY

Negative

RESULT

No reportable variants were detected.

INTERPRETATION

This result decreases the likelihood but does not rule out the involvement of the genes evaluated in this panel.

Individuals may have a pathogenic variant in one of the interrogated genes that is not detectable by the methods utilized. Additionally, the clinical phenotype that is observed in this individual and/or family may be due to a pathogenic variant or variants in another gene not targeted by this test.

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

A genetic consultation may be of benefit.

ADDITIONAL RESULTS

APOL1 GENOTYPE-NEGATIVE

The APOL1 G1 and G2 risk alleles were not detected. This result suggests that this individual is not at an increased risk for development or progression of chronic kidney disease due to the G1 and G2 risk alleles. Clinical correlation with other genetic and laboratory findings is recommended. See Method for details. See www.mayocliniclabs.com (Test ID RFSGS) for additional information regarding this result.

METHOD

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 genes analyzed, as well as some other regions that have known pathogenic variants. 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 over 30X. Sensitivity is estimated at above 99% for single nucleotide

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variants, above 94% for indels less than 40 base pairs (bp), above 95% for deletions up to 75 bp and insertions up to 47 bp. NGS, and/or a polymerase chain reaction (PCR)-based quantitative method was performed to test for the presence of deletions and duplications in the genes analyzed.

Reporting of the APOL1 (NM_003661.3) G1 and G2 alleles is based on the presence of the following variants:

G1 allele: c.1024A>G (p.Ser342Gly) (rs73885319) and c.1152T>G (p.Ile384Met) (rs60910145)

G2 allele: c.1164_1169del (p.Asn388_Tyr389del) (rs1317778148)

See the Genes Analyzed field for a list of genes 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 (TEST ID RFSGS) for details regarding genes with regions not routinely covered.

GENES ANALYZED

ACTN4, ALG1, ANLN, APOL1 (Chr22(GRCh37):g.36661895-36661916 g.36662023-36662062 only), ARHGAP24, ARHGDIA, CD2AP, CLCN5, COL4A3, COL4A4, COL4A5, COQ2, COQ6, COQ8B, CRB2, CUBN, DGKE, EMP2, FAN1, FAT1, FN1, INF2, ITGA3, ITGB4, KANK2, LAMA5, LAMB2, LMX1B, MAGI2, MYH9, MYO1E, NPHS1, NPHS2, NUP107, NUP133, NUP160, NUP205, NUP85, NUP93, OCRL, PAX2, PDSS2, PLCE1, PLCG2, PMM2, PODXL, PTPRO, SCARB2, SGPL1, SMARCAL1, TBC1D8B, TRPC6, TTC21B, WDR73, WT1 and ZMPSTE24

DISCLAIMER

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.

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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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.

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.

Genes may be added or removed based on updated clinical relevance. Please refer to the Targeted Genes and Methodology Details for the FSGS/Nephrotic Syndrome Gene Panel in the Special Instructions section of the Test Catalog for the most up to date list of genes included in this test.

Reclassification of Variants Policy

See www.mayocliniclabs.com (TEST ID RFSGS) 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.

TEST CLASSIFICATION

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.

RELEASED BY

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