

Targeted Genes and Methodology Details for Focal Segmental Glomerulosclerosis and Nephrotic Syndrome Gene Panel

The following applies to RFGS / Focal Segmental Glomerulosclerosis (FSGS) and Nephrotic Syndrome Gene Panel, Varies. Testing is performed to evaluate for the presence of variants in coding regions and extending to +/-10 base pairs of adjacent intronic sequence on either side of the coding exons of the genes analyzed. In addition, the analysis may cover select non-coding variants. Next-generation sequencing and/or a polymerase chain reaction-based quantitative method is performed to test for the presence of copy number variants (CNV) in the genes analyzed. Confirmation of select reportable variants may be performed by alternate methodologies based on internal laboratory criteria.

This list is current from August 2022 to the present. This document is intended to highlight additional evaluations for variants of high clinical interest as well as technical limitations. However, this document does not comprehensively reflect all genomic regions covered by this test. For questions regarding transcripts or genes or regions covered, contact the laboratory at 800-533-1710.

Genomic Build: GRCh37 (hg19) unless otherwise specified

Gene	Reference Transcript	Additional Evaluations	Technical Limitations
<i>ACTN4</i>	NM_004924.6	chr:39138352C>T (c.-34C>T)	-
<i>ALG1</i>	NM_019109.5	-	-
<i>ANLN</i>	NM_018685.5	-	-
<i>APOL1</i>	NM_003661.4	<i>APOL1</i> gene risk haplotype: G1 and G2 allele	Analyses for sequence variants and CNV is not performed for the gene except for the specified risk variants
<i>ARHGAP24</i>	NM_001025616.3	-	CNV analysis in exon 10 is not performed
<i>ARHGDIA</i>	NM_001185077.3	-	-
<i>CD2AP</i>	NM_012120.3	-	CNV analysis in exon 17 is not performed
<i>CLCN5</i>	NM_000084.5	-	-
<i>COL4A3</i>	NM_000091.5	-	-
<i>COL4A4</i>	NM_000092.5	-	-
<i>COL4A5</i>	NM_000495.5	-	-
<i>COQ2</i>	NM_015697.8	-	-
<i>COQ6</i>	NM_182476.3	-	-
<i>COQ8B</i>	NM_024876.4	-	-
<i>CRB2</i>	NM_173689.7	-	-
<i>CUBN</i>	NM_001081.4	-	-
<i>DGKE</i>	NM_003647.3	chr17: g.54925466A>G (c.888+40A>G)	-
<i>EMP2</i>	NM_001424.6	-	-
<i>FAN1</i>	NM_014967.5	-	-
<i>FAT1</i>	NM_005245.4	-	-
<i>FN1</i>	NM_212482.3	-	-
<i>INF2</i>	NM_022489.4	-	-
<i>ITGA3</i>	NM_002204.4	-	-
<i>ITGB4</i>	NM_000213.5	-	-
<i>KANK2</i>	NM_001136191.3	-	-

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Gene	Reference Transcript	Additional Evaluations	Technical Limitations
<i>LAMA5</i>	NM_005560.6	-	-
<i>LAMB2</i>	NM_002292.4	-	-
<i>LMX1B</i>	NM_002316.4	-	-
<i>MAGI2</i>	NM_012301.4	-	CNV analysis in exon 11 is not performed
<i>MYH9</i>	NM_002473.5	-	-
<i>MYO1E</i>	NM_004998.4	-	-
<i>NPHS1</i>	NM_004646.3	-	-
<i>NPHS2</i>	NM_014625.4	-	-
<i>NUP85</i>	NM_024844.5	-	-
<i>NUP93</i>	NM_014669.5	-	-
<i>NUP107</i>	NM_020401.4	-	CNV analysis in exons 18 and 20 is not performed
<i>NUP133</i>	NM_018230.3	chr1: 229577798A>T (c.3335-11T>A)	-
<i>NUP160</i>	NM_015231.2	-	CNV analysis in exon 33 is not performed
<i>NUP205</i>	NM_015135.3	-	-
<i>OCRL</i>	NM_000276.4	-	CNV analysis in exons 3 and 16 is not performed
<i>PAX2</i>	NM_003987.4	-	-
<i>PAX2</i>	NM_003988.5	-	-
<i>PDSS2</i>	NM_020381.4	-	CNV analysis in exon 7 is not performed
<i>PLCE1</i>	NM_016341.4	-	-
<i>PLCG2</i>	NM_002661.5	-	-
<i>PMM2</i>	NM_000303.3	chr16:8891573G>T (c.-167G>T); chr16: .8926102C>T (c.640-15479C>T)	-
<i>PODXL</i>	NM_001018111.3	-	CNV analysis in exon 3 is not performed
<i>PTPRO</i>	NM_030667.3	-	CNV analysis in exon 18 is not performed
<i>SCARB2</i>	NM_005506.4	-	-
<i>SGPL1</i>	NM_003901.4	-	-
<i>SMARCA1</i>	NM_014140.4	-	-
<i>TBC1D8B</i>	NM_017752.3	-	-
<i>TRPC6</i>	NM_004621.6	-	CNV analysis in exon 10 is not performed
<i>TTC21B</i>	NM_024753.5	-	-
<i>WDR73</i>	NM_032856.4	-	-
<i>WT1</i>	NM_024426.6	-	-
<i>ZMPSTE24</i>	NM_005857.5	-	-