



The following applies to PCDGG / Primary Ciliary Dyskinesia Gene Panel. 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 will 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 in the genes analyzed. Confirmation of select reportable variants may be performed by alternate methodologies based on internal laboratory criteria.

This test was updated 04/25/2024. 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 on this version or prior versions of this test, contact the laboratory at 800-533-1710.

Genomic Build: GRCh37 (hg19) unless otherwise specified

Gene	Reference Transcript	Additional Evaluations	Technical Limitations
<i>ARMC4 (ODAD2)</i>	NM_018076.5	-	Sensitivity for SNV and CNV detection may be reduced in exon 9 due to homology.
<i>CCDC103</i>	NM_213607.3	-	-
<i>CCDC114 (ODAD1)</i>	NM_144577.4	-	-
<i>CCDC151 (ODAD3)</i>	NM_145045.5	-	-
<i>CCDC39</i>	NM_181426.2	-	-
<i>CCDC40</i>	NM_017950.4	-	-
<i>CCDC65</i>	NM_033124.5	-	-
<i>CCNO</i>	NM_021147.5	-	-
<i>CFAP298</i>	NM_021254.4	-	CNV may not be detected in exon 3.
<i>CFAP300</i>	NM_032930.3	-	-
<i>DNAAF1</i>	NM_178452.6	-	-
<i>DNAAF2</i>	NM_018139.2	-	-
<i>DNAAF3</i>	NM_001256714.1	-	-
<i>DNAAF4</i>	NM_130810.4	-	-
<i>DNAAF5</i>	NM_017802.4	-	-
<i>DNAH1</i>	NM_015512.5	-	-
<i>DNAH11</i>	NM_001277115.2	-	CNV may not be detected in exon 55.
<i>DNAH5</i>	NM_001369.2	-	-
<i>DNAH8</i>	NM_001206927.2	-	-
<i>DNAH9</i>	NM_001372.4	-	-
<i>DNAI1</i>	NM_012144.4	-	-
<i>DNAI2</i>	NM_023036.6	-	-
<i>DNAJB13</i>	NM_153614.3	-	Sensitivity for SNV and CNV detection may be reduced in exon 7. Coverage 5–10x.
<i>DNAL1</i>	NM_031427.4	-	CNV may not be detected in exon 5.
<i>DRC1</i>	NM_145038.5	-	-
<i>FOXJ1</i>	NM_001454.4	-	-
<i>GAS8</i>	NM_001481.3	-	-
<i>LRRC6 (DNAAF11)</i>	NM_012472.6	-	-
<i>MCIDAS</i>	NM_001190787.3	-	-
<i>OFD1</i>	NM_003611.3	-	-

# Targeted Genes and Methodology Details

## for Primary Ciliary Dyskinesia Gene Panel (continued)

Gene	Reference Transcript	Additional Evaluations	Technical Limitations
<i>PIH1D3 (DNAAF6)</i>	NM_001169154.1	-	-
<i>RPGR</i>	NM_000328.3	-	-
<i>RSPH1</i>	NM_080860.4	-	-
<i>RSPH3</i>	NM_031924.6	-	-
<i>RSPH4A</i>	NM_001010892.3	-	-
<i>RSPH9</i>	NM_152732.5	-	-
<i>SPAG1</i>	NM_172218.2	-	CNV may not be detected in exon 5.
<i>TTC25 (ODAD4)</i>	NM_031421.5	-	Sequence and CNV analysis of exons 9-12 will not be performed.
<i>ZMYND10</i>	NM_015896.4	-	-

Effective Date	Version	Synopsis of Test Change
04/25/2024	V2	Added note regarding reduced sensitivity for <i>DNAJB13</i> exon 7 and <i>ODAD2</i> exon 9