



The following applies to PARDP / Inherited Parkinson Disease 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 list is current from March 2023 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>ADORA1</i>	NM_000674.3	-	-
<i>AHSA1</i>	NM_012111.3	-	Variants provided only upon request
<i>ANG</i>	NM_001145.4	-	-
<i>ANO3</i>	NM_031418.4	-	-
<i>APP</i>	NM_000484.4	-	-
<i>ATP13A2</i>	NM_022089.4	-	-
<i>ATP1A3</i>	NM_152296.5	-	-
<i>ATP6AP2</i>	NM_005765.3	c.301-11_301-10del	-
<i>ATP7B</i>	NM_000053.4	c.-676A>G c.-460G>A c.-447C>T c.-442G>A c.-436_-422del15 c.-388C>T c.-210A>T c.-133A>C c.-128A>C c.-123C>A c.-128_-124delAGCCG c.1947-19T>A c.3061-12T>A	-
<i>C19orf12</i>	NM_001031726.3	-	CNV in exon 1 may not be detected or reported
<i>CHCHD2</i>	NM_016139.4	-	-
<i>CHMP2B</i>	NM_014043.4	-	-
<i>CLN3</i>	NM_001042432.1	-	-
<i>CP</i>	NM_000096.4	-	CNV in exon 19 may not be detected or reported
<i>CSF1R</i>	NM_005211.3	c.1969+115_1969+116del c.1859-119G>A	-
<i>CYP27A1</i>	NM_000784.4	-	-
<i>DCAF17</i>	NM_025000.4	-	-
<i>DCTN1</i>	NM_004082.4	-	-
<i>DDC</i>	NM_000790.4	-	-
<i>DNAJB2</i>	NM_001039550.2	-	-
<i>DNAJC12</i>	NM_021800.3	-	-
<i>DNAJC13</i>	NM_015268.4	-	-

**Targeted Genes and Methodology Details
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Gene	Reference Transcript	Additional Evaluations	Technical Limitations
<i>DNAJC6</i>	NM_001256864.2	-	-
<i>DNM1L</i>	NM_012062.5	c.251-1532dup	-
<i>EIF4G1</i>	NM_198241.3	-	-
<i>FBX07</i>	NM_012179.4	-	-
<i>FTL</i>	NM_000146.4	5'UTR c.-200 to c.-143	-
<i>FUS</i>	NM_004960.3	c.*59G>A	-
<i>GBA</i>	NM_001005741.3	-	-
<i>GCH1</i>	NM_000161.3	-	CNV in exon 4 may not be detected or reported
<i>GIGYF2</i>	NM_001103146.2	-	CNV in exons 8 and 18 may not be detected or reported
<i>GRN</i>	NM_002087.3	c.-256 to c.-8+10	-
<i>HTRA2</i>	NM_013247.4	-	-
<i>KIF5A</i>	NM_004984.4	-	-
<i>LRP10</i>	NM_014045.5	-	-
<i>LRRK2</i>	NM_198578.4	-	-
<i>LYST</i>	NM_000081.4	-	-
<i>MAPT</i>	NM_005910.5	c.823-15T>C c.915+11 to c.915+24	-
<i>OPTN</i>	NM_021980.4	-	-
<i>PANK2</i>	NM_153638.3	-	-
<i>PARK7</i>	NM_007262.5	-	CNV in exon 4 may not be detected or reported
<i>PDE10A</i>	NM_001130690.2	-	CNV in exons 1 and 10 may not be detected or reported
<i>PDE8B</i>	NM_003719.4	-	-
<i>PDGFB</i>	NM_002608.4	-	-
<i>PDGFRB</i>	NM_002609.4	-	-
<i>PEX1</i>	NM_000466.3	-	-
<i>PINK1</i>	NM_032409.3	-	-
<i>PLA2G6</i>	NM_003560.4	-	-
<i>PLD3</i>	NM_012268.4	-	-
<i>PODXL</i>	NM_005397.4	-	-
<i>POLG</i>	NM_002693.2	-	-
<i>POLG2</i>	NM_007215.4	-	-
<i>PRKAR1B</i>	NM_001164761.1	-	-
<i>PRKN</i>	NM_004562.3	-	-
<i>PRKRA</i>	NM_003690.5	-	CNV analysis will not be performed
<i>PRRT2</i>	NM_145239.3	c.880-34G>A	-
<i>PSEN1</i>	NM_000021.4	-	-
<i>PSEN2</i>	NM_000447.3	-	-
<i>PTRHD1</i>	NM_001013663.1	-	-
<i>RAB29</i>	NM_003929.3	-	-
<i>RAB39B</i>	NM_171998.4	-	-
<i>RIC3</i>	NM_001206671.4	-	-

Targeted Genes and Methodology Details
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Gene	Reference Transcript	Additional Evaluations	Technical Limitations
<i>SIGMAR1</i>	NM_005866.4	-	-
<i>SLC18A2</i>	NM_003054.6	-	-
<i>SLC20A2</i>	NM_006749.5	-	-
<i>SLC30A10</i>	NM_018713.2	-	-
<i>SLC39A14</i>	NM_015359.6	-	-
<i>SLC6A3</i>	NM_001044.5	-	-
<i>SNCA</i>	NM_000345.4	-	-
<i>SNCB</i>	NM_001001502.3	-	-
<i>SOD1</i>	NM_000454.4	c.358-11A>G	-
<i>SPG11</i>	NM_025137.4	-	-
<i>SPR</i>	NM_003124.5	-	-
<i>SQSTM1</i>	NM_003900.5	-	-
<i>SYNJ1</i>	NM_003895.3	-	-
<i>TAF1</i>	NM_004606.4	-	-
<i>TAF15</i>	NM_139215.3	-	-
<i>TARDBP</i>	NM_007375.3	-	-
<i>TENM4</i>	NM_001098816.3	-	-
<i>TH</i>	NM_199292.3	c.-71C>T c.-70G>A c.1198-24T>A	-
<i>THAP1</i>	NM_018105.3	-	-
<i>TMEM230</i>	NM_001009923.2	-	CNV in exon 2 may not be detected or reported
<i>TOR1A</i>	NM_000113.3	-	-
<i>TUBA4A</i>	NM_006000.3	-	-
<i>TWNK</i>	NM_021830.5	-	-
<i>UBQLN2</i>	NM_013444.3	-	-
<i>UCHL1</i>	NM_004181.5	-	-
<i>UNC13A</i>	NM_001080421.2	-	-
<i>VCP</i>	NM_007126.5	-	-
<i>VPS13A</i>	NM_033305.3	-	-
<i>VPS13C</i>	NM_020821.3	-	CNV in exons 1–2 and 12 may not be detected or reported
<i>VPS35</i>	NM_018206.6	-	-
<i>WDR45</i>	NM_007075.3	-	-
<i>XPR1</i>	NM_004736.4	-	-

Effective Date	Version	Synopsis of Test Change
3/10/2023	V2	Updated <i>ATP7B</i> additional variants detected