

The following applies to Hearing Loss Custom 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 numbers 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 January 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	<b>Additional Evaluations</b>	<b>Technical Limitations</b>
ABHD12	NM_001042472.3	-	-
ACTG1	NM_001614.5	-	-
ADCY1	NM_021116.4	-	CNV analysis in exon 20 will not be performed
ADGRV1 (GPR98)	NM_032119.4	-	-
AIFM1	NM_004208.4	-	-
ALMS1	ENST00000264448.6	-	-
ARSG	NM_014960.5	-	-
ATP2B2	NM_001683.5	-	-
ATP2B2	NM_001001331.4	-	-
ATP6V1B1	NM_001692.4	-	-
ATP6V1B2	NM_001693.4	-	-
BCS1L	NM_004328.5	-	-
BSND	NM_057176.3	-	-
BTD	NM_000060.4	-	-
CABP2	NM_016366.3	-	-
CACNA1D	NM_000720.4	-	-
CATSPERª	NM_172095.4	MLPA is performed for exons 1, 2, 4, 7, and 12	Analysis for sequence variants will not be performed
CCDC50	NM_178335.3	-	-
CD164	NM_006016.6	-	-
CDC14A	NM_033312.2	-	-
CDH23	NM_022124.6	-	CNV analysis in exon 12 will not be performed
CEACAM16	NM_001039213.4	-	-
CEP250	NM_007186.6	-	-
CEP78	NM_001098802.3	-	CNV analysis in exon 10 will not be performed
CHD7	NM_017780.4	chr8:61757794 (c.5051-15T>A) chr8:61763034 (c.5405-18C>A) chr8:61763035 (c.5405-17G>A) chr8:61763039 (c.5405-13G>A)	-
CIB2	NM_006383.4	-	-
CISD2	NM_001008388.5	-	CNV analysis in exon 3 will not be performed

Gene	Reference Transcript	Additional Evaluations	<b>Technical Limitations</b>
CLDN14	NM_144492.3	-	-
CLIC5	NM_001114086.2	-	-
CLIC5	NM_016929.5	-	-
CLPP	NM_006012.4	-	-
CLRN1	NM_174878.3	chr3:150660197 (c.254-649T>G)	-
СОСН	NM_004086.3	-	-
COL11A1	NM_001854.4	-	-
COL11A2	NM_080680.3	-	-
COL2A1	NM_001844.5	-	-
COL4A3	NM_000091.5	-	-
COL4A4	NM_000092.5	-	-
COL4A5	NM_000495.5	-	-
COL4A5	NM_033380.3	-	-
COL4A6	NM_001847.4	-	CNV analysis in exon 1 will not be performed
COL9A1	NM_001851.5	-	-
COL9A2	NM_001852.4	-	-
COL9A3	NM_001853.4	-	-
CRYL1 <sup>b</sup>	NM_015974.3	This gene is reported only in the context of GJB2	Analysis for sequence variants will not be performed
CRYM	NM_001888.5	-	-
DCDC2	NM_016356.5	-	-
DIABLO	NM_019887.6	-	-
DIAPH1	NM_005219.5	-	-
DIAPH3	NM_001042517.2	-	CNV analysis in exon 18 will not be performed
DMXL2	NM_001174116.2	-	-
DNMT1	NM_001130823.3	-	CNV analysis in exon 5 will not be performed
DSPP	NM_014208.3	-	Analyses for sequence variants and CNV in exon 5 will not be performed
EDN3	NM_207034.3	-	-
EDNRB	NM_000115.5	-	-
ELMOD3	NM_001135022.2	-	-
EPS8	NM_004447.6	-	-
EPS8L2	NM_022772.4	-	-
ESPN	NM_031475.3	-	CNV analysis in exon 7 will not be performed
ESRRB	NM_004452.3	-	-
EYA1	NM_000503.6	-	-
EYA4	NM_004100.5	-	-
FDXR	NM_024417.5	-	-
FGF3	NM_005247.4	-	-
FGFR2	NM_000141.4	-	-
FGFR3	NM_000142.4	-	-
FITM2	NM_001080472.4	-	-

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Gene	Reference Transcript	Additional Evaluations	<b>Technical Limitations</b>
FLNA	NM_001456.3	-	-
FOXC1	NM_001453.3	-	-
FOXI1	NM_012188.5	-	-
GATA3	NM_001002295.2	-	-
GIPC3	NM_133261.3	-	-
GJB2 (DFNB1) with GJB6 and CRYL1 <sup>b</sup>	NM_004004.6	chr13:20763744 (c22-2A>C) chr13:20766920 (c23+2T>A) chr13:20766921 (c23+1G>A) chr13:20766922 (c23G>T)	-
GJB6 <sup>b</sup>	NM_006783.4	-	Analysis for sequence variants will not be performed
GPSM2	NM_013296.5	-	-
GREB1L	NM_001142966.2	-	CNV analysis will not be performed
GRHL2	NM_024915.4	-	-
GRXCR1	NM_001080476.2	-	-
GRXCR2	NM_001080516.1	-	-
GSDME	NM_004403.3	chr7:24746008_24746010 (c.991-15_991-13del)	-
HARS2	NM_012208.4	-	-
HGF	NM_000601.6	-	-
HOMER2	NM_004839.4	-	-
HOXA2	NM_006735.4	-	-
HSD17B4	NM_000414.4	chr5:118837725 (c.1210-11C>G)	-
ILDR1	NM_001199799.2	-	-
KARS1	NM_001130089.1	-	-
KARS1	NM_005548.2	-	-
KCNE1	NM_000219.6	-	-
KCNJ10	NM_002241.5	-	-
KCNQ1	NM_000218.3	-	-
KCNQ4	NM_004700.4	-	-
KITLG	NM_000899.5	-	-
LARS2	NM_015340.4	-	-
LHFPL5	NM_182548.4	-	-
LMX1A	NM_177398.4	-	-
LOXHD1	NM_144612.6	-	-
LOXHD1	NM_001145472.3	-	CNV analysis in exon 24 will not be performed
LRP2	NM_004525.3	-	-
LRTOMT	NM_001145308.4	-	-
MAN2B1	NM_000528.4	-	-
MANBA	NM_005908.4	-	-
MARVELD2	NM_001038603.3	-	CNV analysis in exon 6 will not be performed
MCM2	NM_004526.4	-	-
MET	NM_001127500.3	-	-
MIR96	NR_029512.1	-	CNV analysis will not be performed

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MTF         NM_000597.4         -           MFZL2         NM_0010597.4         -           MSRB3         NM_19808.04         -         CNV analysis in exon 4 will not be performed CNV analysis in exon 5 will not be performed MFRNRI           MFRNRI         NC_0129201         ddPCR for the detection of m.1494CPT, m.1555A>G to 5% heteroplasmy         No additional variants are detected           MFTSI         NC_0129201         dPCR for the detection m.7445A>G of to 5% heteroplasmy         No additional variants are detected           MYH14         NM_024729.3         -         -           MYH14         NM_024729.3         -         -           MYH14         NM_0024729.3         -         -           MYH14         NM_0024729.3         -         -           MYH14         NM_0024729.3         -         -           MY15         NM_016333.4         -         -           MY05A         NM_016233.4         -         -           MY05A         NM_004999.4         -         -           MY07A         NM_004999.4         -         -           NM2         NM_002678.6         -         CNV analysis in exon 9 will not be performed           NDR2         NM_000268.3         -         -	Gene	Reference Transcript	Additional Evaluations	<b>Technical Limitations</b>
MSRB3         NM_19808.0.4         -         CNV analysis in exon 4 will not be performed CNV analysis in exon 5 will not be performed CNV analysis in exon 5 will not be performed or 5% heteroplasmy           MFRNRI         NC_012920.1         ddPCR for the detection of m.1494C>T, m.155SA-G to 5% heteroplasmy         No additional variants are detected           MYHI4         NM_024729.3         -         -         -           MYHI4         NM_024729.3         -         -         -           MY915A         NM_002473.5         -         -         -           MY05A         NM_016239.4         -         -         -           MY06         NM_016239.4         -         -         -           MY07A         NM_00699.4         -         -         -           MY07A         NM_002606.4         -         -         -           NR22         NM_004895.4         -         -         -           NR23         NM_004895.4         -         -         -           OPA1         NM_130837.2         -         -         -           OFF         NM_144672.4         MLPAIs performed for exons 2,5,7,11,16, and 17         Analysis for sequence variants in exons 23-28 will not be performed CNV analysis in exon 31 will not be performed CNV analysis in exon 31 will not be performed CN	MITF	NM_000248.3	-	-
MSRB3         NM_001031679.3         CNV analysis in exon 5 will not be performed           MT-RNRI         NC_012920.1         ddPCR for the detection of m.1494C>T, m.1555A>G to 5% heteroplasmy         No additional variants are detected           MT-TSI         NC_012920.1         ddPCR for the detection m.7445A>G of to 5% heteroplasmy         No additional variants are detected           MYHH4         NN_024729.3         No additional variants are detected           MYH99         NM_002473.5         -         -           MYO3A         NN_016239.4         -         -           MYO3A         NM_017433.5         -         -           MYO3A         NM_004999.4         -         -           MYO3A         NM_0024678.6         -         CNV analysis in exon 9 will not be performed           NDRGI         NM_002680.4         -         CNV analysis in exon 9 will not be performed           NDRGI         NM_000268.3         -         -         CNV analysis in exon 9 will not be performed           OPA1         NM_015560.2         -         -         -         -           OPA1         NM_130837.2         -         -         -           OTOA         NM_144672.4         MLPA is performed for exons 2,5,7,11,16, and 17         Analysis for sequence variants in exons 21-29 will not	MPZL2	NM_005797.4	-	-
MT-RNRI         NC_012920.1         ddPCR for the detection of m.1494C>T, m.1555A>G to 5% heteroplasmy         No additional variants are detected           MT-TSI         NC_012920.1         ddPCR for the detection m.7445A>G of to 5% heteroplasmy         No additional variants are detected           MYHH4         NM_024729.3         .         .           MYD15A         NM_016239.4         .         .           MYO3A         NM_016239.4         .         .           MYO6         NM_00499.4         .         .           MYO7A         NM_00499.4         .         .           MYO6         NM_00499.4         .         .           MYO7A         NM_00468.6         .         CNV analysis in exon 9 will not be performed           NRR2         NM_006096.4         .         .         .           NLRP3         NM_004895.4         .         .         .           OPA1         NM_105560.2         .         .         .           OPA1         NM_14498.3         .         .         .           OTOF         NM_194248.3         .         .         .         .           OTOF         NM_00187269.2         .         .         .         .           OTOF	MSRB3	NM_198080.4	-	CNV analysis in exon 4 will not be performed
MT-RNR	MSRB3	NM_001031679.3	-	CNV analysis in exon 5 will not be performed
M7H3         NC_012920.1         to 5% heteroplasmy         No additional variants are detected           MYH4         NM_02473.5         -         -           MYH9         NM_002473.5         -         -           MYO3A         NM_016239.4         -         -           MY06         NM_004999.4         -         -           MY07A         NM_000260.4         -         -           NARS2         NM_002696.4         -         -           NRG1         NM_006096.4         -         -         -           NF2         NM_000268.3         -         -         -           NLR93         NM_004895.4         -         -         -           OPA1         NM_015560.2         -         -         -           OPA1         NM_1530837.2         -         -         -           OSBPL2         NM_144498.3         -         -         -           OTOF         NM_194248.3         -         -         -           OTOF         NM_19428.3         -         -         -           OTOG         NM_001287489.2         -         -         -           OTOGL         NM_173591.3         -	MT-RNR1	NC_012920.1		No additional variants are detected
MYH9         NM_002473.5         -         -           MYOJSA         NM_016239.4         -         -           MYO3A         NM_017433.5         -         -           MYO6         NM_000260.4         -         -           MYO7A         NM_000260.4         -         -           NRS2         NM_002696.4         -         CNV analysis in exon 9 will not be performed           NRP3         NM_000696.4         -         -         -           NEP         NM_000286.3         -         -         -           NLRP3         NM_004895.4         -         -         -           OPA1         NM_015560.2         -         -         -           OPA1         NM_130837.2         -         -         -           OSBPL2         NM_144498.3         -         -         -           OTOA         NM_144672.4         MLPA is performed for exons 2,5,7,11,16, and 17         Analysis for sequence variants in exons 23-2-28 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exon 31 will not be performed Parkets         -         -         -         -         -         -         -         -         -         -         - <t< td=""><td>MT-TS1</td><td>NC_012920.1</td><td></td><td>No additional variants are detected</td></t<>	MT-TS1	NC_012920.1		No additional variants are detected
MYO15A         NN_016239.4         -         -           MYO3A         NN_017433.5         -         -           MYO6         NM_004999.4         -         -           MYO7A         NN_000260.4         -         -           MYO7A         NN_0006096.4         -         CNV analysis in exon 9 will not be performed           NDRGI         NM_006096.4         -         -         -           NF2         NM_000268.3         -         -         -           NLRP3         NM_004895.4         -         -         -           OPAI         NM_015860.2         -         -         -           OPAI         NM_130837.2         -         -         -           OSBPL2         NM_144498.3         -         -         -           OTOA         NM_144672.4         MLPA is performed for exons 2,5,7,11,16, and 7         Analysis for sequence variants in exons 23-28 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exon 31 will not be performed PM, and analysis in exon 31 will not be performed CNV analysis in exon 31 will not be performed PM, and analysis in exon 31 will not be performed PM, and analysis in exon 31 will not be performed CNV analysis in exon 31 will not be performed PM, analysis in exon 31 will not be performed CNV analysis in exon 31 will not be performed PM, an	MYH14	NM_024729.3	-	-
MYO3A         NM_017433.5         -         -           MYO6         NM_004999.4         -         -           MYO7A         NM_000260.4         -         -           NARS2         NM_002678.6         -         CNV analysis in exon 9 will not be performed           NDRGI         NM_006096.4         -         -           NF2         NM_000268.3         -         -           NLRP3         NM_004895.4         -         -           OPA1         NM_015560.2         -         -           OPA1         NM_130837.2         -         -           OSBPL2         NM_144498.3         -         -           OTOA         NM_144498.3         -         -           OTOF         NM_194248.3         -         -         -           OTOF         NM_194248.3         -         -         -           OTOF         NM_194248.3         -         -         -           OTOF         NM_001287489.2         -         -         -           OTOG         NM_001287489.2         -         -         -           OTOGL         NM_173591.3         -         CNV analysis in exon 31 will not be performed         CNV analysi	МҮН9	NM_002473.5	-	-
MY06         NI_004999.4         -         -           MY07A         NM_000260.4         -         -           NARS2         NM_000268.6         -         CNV analysis in exon 9 will not be performed           NDRGI         NM_000268.3         -         -           NLRP3         NM_004895.4         -         -           OPA1         NM_015560.2         -         -           OPA1         NM_130837.2         -         -           OSBPL2         NM_144498.3         -         -           OTOA         NM_144672.4         MLPAis performed for exons 2,5,7,11, 16, and 17         Analysis for sequence variants in exons 23–28 will not be performed CNV analysis in exons 21–29 will not be performed CNV analysis in exons 21–29 will not be performed CNV analysis in exon 31 will not be performed CNV analysis in exon 31 will not be performed PNM_001277269.2         -         -           OTOG         NM_001277269.2         -         -         CNV analysis in exon 31 will not be performed PNM_273591.3         -         CNV analysis in exon 31 will not be performed PNM_273591.3         -	MYO15A	NM_016239.4	-	-
MYO7A         NM_000260.4         -         CNV analysis in exon 9 will not be performed           NARS2         NM_0024678.6         -         CNV analysis in exon 9 will not be performed           NDRG1         NM_006096.4         -         -         -           NF2         NM_000268.3         -         -         -           NN_187         NM_0015560.2         -         -         -           OPAI         NM_130837.2         -         -         -           OPAI         NM_144498.3         -         -         -           OTOA         NM_144672.4         MLPA is performed for exons 2, 5, 7, 11, 16, and 17         Analysis for sequence variants in exons 23-28 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed PARX2         - <td>МҮОЗА</td> <td>NM_017433.5</td> <td>-</td> <td>-</td>	МҮОЗА	NM_017433.5	-	-
NARS2         NM_024678.6         -         CNV analysis in exon 9 will not be performed           NDRG1         NM_006096.4         -         -           NF2         NM_000268.3         -         -           NP3         NM_0004895.4         -         -           OPA1         NM_015560.2         -         -           OPA1         NM_130837.2         -         -           OPA1         NM_144498.3         -         -           OTOA         NM_144498.3         -         -           OTOA         NM_194248.3         -         -           OTOF         NM_001287489.2         -         -           OTOG         NM_001287489.2         -         -           OTOG         NM_001277269.2         -         -           OTOGL         NM_173891.3         -         CNV analysis in exon 31 will not be performed           P2RX2         NM_174873.3         -         -         -           PAX3         NM_181457.4         -         -         -           PCDH15         NM_033056.4         -         -         -           PEX10         NM_153818.1         -         -         -           PEX11 <td>MY06</td> <td>NM_004999.4</td> <td>-</td> <td>-</td>	MY06	NM_004999.4	-	-
NDRG1         NM_006096.4         -         -           NF2         NM_000268.3         -         -           NLRP3         NM_004895.4         -         -           OPA1         NM_015560.2         -         -           OPA1         NM_130837.2         -         -           OSBPL2         NM_144498.3         -         -           OTOA         NM_144672.4         MLPA is performed for exons 2,5,7,11,16, and 17         Analysis for sequence variants in exons 23-28 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed PNM_001287489.2         -         -           OTOF         NM_001287489.2         -         -         -         -           OTOG         NM_001287789.3         -         CNV analysis in exon 31 will not be performed CNV analysis in exon 31 will not be performed PNM_00769.2         -         <	MYO7A	NM_000260.4	-	-
NF2         NM_000268.3         -         -           NLRP3         NM_004895.4         -         -           OPA1         NM_015560.2         -         -           OPA1         NM_130837.2         -         -           OSBPL2         NM_144498.3         -         -           NM_144672.4         MLPA is performed for exons 2,5,7,11,16, and 17         Analysis for sequence variants in exons 23–28 will not be performed CNV analysis in exons 21–29 will not be performed CNV analysis in exons 21–29 will not be performed CNV analysis in exons 21–29 will not be performed PM_001287489.2         -         -           OTOF         NM_001287489.2         -         -         -           OTOG         NM_001287489.2         -         -         -           OTOGL         NM_1783591.3         -         CNV analysis in exon 31 will not be performed exons 2,5,7,11,16, and 17         -         -           P2RX2         NM_17849.2         -         -         -           OTOG         NM_001287489.2         -         -         -           P2RX2         NM_174873.3         -         CNV analysis in exon 31 will not be performed exons 2,5,7,11,16, and 17         -         -           PCDH15         NM_033056.4         -         -         -         - <td< td=""><td>NARS2</td><td>NM_024678.6</td><td>-</td><td>CNV analysis in exon 9 will not be performed</td></td<>	NARS2	NM_024678.6	-	CNV analysis in exon 9 will not be performed
NLRP3         NM_004895.4         -         -           OPA1         NM_015560.2         -         -           OPA1         NM_130837.2         -         -           OSBPL2         NM_144498.3         -         -           Analysis for sequence variants in exons 25-28 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exon	NDRG1	NM_006096.4	-	-
OPA1         NM_015560.2         -         -           OPA1         NM_130837.2         -         -           OSBPL2         NM_144498.3         -         -           Analysis for sequence variants in exons 23-28 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 21-29 will not be performed CNV analysis in exons 31 will not be performed CNV	NF2	NM_000268.3	-	-
OPA1         NM_130837.2         -         -           OSBPL2         NM_144498.3         -         -           NM_2         NM_144498.3         -         -           NM_144672.4         MLPA is performed for exons 2, 5, 7, 11, 16, and 17         Analysis for sequence variants in exons 23–28 will not be performed CNV analysis in exons 21–29 will not be performed CNV analysis in exons 21–29 will not be performed CNV analysis in exons 21–29 will not be performed PM_001277269.2         -         -           OTOG         NM_001277269.2         - </td <td>NLRP3</td> <td>NM_004895.4</td> <td>-</td> <td>-</td>	NLRP3	NM_004895.4	-	-
OSBPL2         NM_144498.3         -         -         Analysis for sequence variants in exons 23–28 will not be performed CNV analysis in exons 21–29 will not be performed CNV analysis in exons 21–29 will not be performed           OTOF         NM_194248.3         - <td>OPA1</td> <td>NM_015560.2</td> <td>-</td> <td>-</td>	OPA1	NM_015560.2	-	-
OTOA         NM_144672.4         MLPA is performed for exons 2, 5, 7, 11, 16, and 17         Analysis for sequence variants in exons 23–28 will not be performed CNV analysis in exons 21–29 will not be performed           OTOF         NM_194248.3         -         -         CNV analysis in exons 21–29 will not be performed           OTOF         NM_001287489.2         -	OPA1	NM_130837.2	-	-
OTOA         NM_144672.4         MLPA is performed for exons 2,5,7,11,16, and 17         23-28 will not be performed CNV analysis in exons 21-29 will not be performed           OTOF         NM_194248.3         -         -           OTOF         NM_001287489.2         -         -           OTOG         NM_001277269.2         -         -           OTOGL         NM_173591.3         -         CNV analysis in exon 31 will not be performed           P2RX2         NM_174873.3         -         -         -           PAX3         NM_181457.4         -         -         -           PCDH15         NM_033056.4         -         -         -           PDZD7         NM_001195263.2         -         -         -           PEX1         NM_000466.3         -         -         -           PEX10         NM_153818.1         -         -         -           PEX11B         NM_003846.3         -         -         -           PEX12         NM_000286.3         -         -         -           PEX13         NM_002618.4         -         -         -           PEX14         NM_004813.3         -         -         -           PEX19         NM_0	OSBPL2	NM_144498.3	-	-
OTOF         NM_194248.3         -         -           OTOF         NM_001287489.2         -         -           OTOG         NM_001277269.2         -         -           OTOGL         NM_173591.3         -         CNV analysis in exon 31 will not be performed           P2RX2         NM_174873.3         -         -           PAX3         NM_181457.4         -         -           PCDH15         NM_033056.4         -         -           PDZD7         NM_001195263.2         -         -           PEX1         NM_000466.3         -         -           PEX10         NM_153818.1         -         -           PEX10         NM_153818.1         -         -           PEX11B         NM_003846.3         -         -           PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004856.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -	ОТОА	NM_144672.4	MLPA is performed for exons 2, 5, 7, 11, 16, and 17	23–28 will not be performed CNV analysis in exons 21–29 will not
OTOF         NM_001287489.2         -         -           OTOG         NM_001277269.2         -         -           OTOGL         NM_173591.3         -         CNV analysis in exon 31 will not be performed           P2RX2         NM_174873.3         -         -           PAX3         NM_181457.4         -         -           PCDH15         NM_033056.4         -         -           PDZD7         NM_001195263.2         -         -           PEX1         NM_000466.3         -         -           PEX10         NM_153818.1         -         -           PEX11B         NM_003846.3         -         -           PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004865.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -	OTOE	NIM 19/2/8 3	_	be performed
OTOG         NM_001277269.2         -         -           OTOGL         NM_173591.3         -         CNV analysis in exon 31 will not be performed           P2RX2         NM_174873.3         -         -           PAX3         NM_181457.4         -         -           PCDH15         NM_033056.4         -         -           PDZD7         NM_001195263.2         -         -           PEX1         NM_000466.3         -         -           PEX10         NM_153818.1         -         -           PEX11B         NM_003846.3         -         -           PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -		<del>-</del>	_	_
OTOGL         NM_173591.3         -         CNV analysis in exon 31 will not be performed           P2RX2         NM_174873.3         -         -           PAX3         NM_181457.4         -         -           PCDH15         NM_033056.4         -         -           PDZD7         NM_001195263.2         -         -           PEX1         NM_000466.3         -         -           PEX10         NM_153818.1         -         -           PEX11B         NM_003846.3         -         -           PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			_	_
P2RX2       NM_174873.3       -       -         PAX3       NM_181457.4       -       -         PCDH15       NM_033056.4       -       -         PDZD7       NM_001195263.2       -       -         PEX1       NM_000466.3       -       -         PEX10       NM_153818.1       -       -         PEX11B       NM_003846.3       -       -         PEX12       NM_000286.3       -       -         PEX13       NM_002618.4       -       -         PEX14       NM_004565.3       -       -         PEX16       NM_004813.3       -       -         PEX19       NM_002857.3       -       -			_	CNV analysis in exon 31 will not be performed
PAX3         NM_181457.4         -         -           PCDH15         NM_033056.4         -         -           PDZD7         NM_001195263.2         -         -           PEX1         NM_000466.3         -         -           PEX10         NM_153818.1         -         -           PEX11B         NM_003846.3         -         -           PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			_	-
PCDH15         NM_033056.4         -         -           PDZD7         NM_001195263.2         -         -           PEX1         NM_000466.3         -         -           PEX10         NM_153818.1         -         -           PEX11B         NM_003846.3         -         -           PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			_	_
PDZD7         NM_001195263.2         -         -           PEX1         NM_000466.3         -         -           PEX10         NM_153818.1         -         -           PEX11B         NM_003846.3         -         -           PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			_	-
PEX1         NM_000466.3         -         -           PEX10         NM_153818.1         -         -           PEX11B         NM_003846.3         -         -           PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			_	-
PEX10         NM_153818.1         -         -           PEX11B         NM_003846.3         -         -           PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			_	-
PEX11B         NM_003846.3         -         -           PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			-	-
PEX12         NM_000286.3         -         -           PEX13         NM_002618.4         -         -           PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			-	-
PEX13         NM_002618.4         -         -           PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			-	-
PEX14         NM_004565.3         -         -           PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			-	-
PEX16         NM_004813.3         -         -           PEX19         NM_002857.3         -         -			-	-
PEX19 NM_002857.3			_	-
			_	-
	PEX2	NM_000318.3	_	_

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Gene	Reference Transcript	Additional Evaluations	<b>Technical Limitations</b>
PEX26	NM_017929.6	-	-
PEX3	NM_003630.3	-	-
PEX5	NM_001131025.1	-	-
PEX6	NM_000287.4	-	-
PEX7	NM_000288.4	-	-
PHYH	NM_006214.4	-	-
PJVK	NM_001042702.4	-	-
PLS1	NM_002670.3	-	-
PNPT1	NM_033109.5	-	-
POLR1B	NM_019014.6	-	-
POLR1C	NM_203290.4	-	-
POLR1D	NM_015972.4	-	-
POU3F4	NM_000307.5	-	-
POU4F3	NM_002700.3	-	-
PRPS1	NM_002764.4	-	-
PTPN11	NM_002834.4	-	-
PTPRQ		-	Analysis for sequence variants in exons 4–11 will not be performed
PIPRQ	ENST00000266688.5		CNV analysis in exons 1 and 4–50 will not be performed
RAI1	NM_030665.4	-	-
RDX	NM_002906.3	-	CNV analysis in exon 2 will not be performed
RIPOR2	NM_014722.5	-	CNV analysis in exon 6 will not be performed
RMND1	NM_017909.4	-	-
S1PR2	NM_004230.4	-	-
SALL1	NM_002968.3	-	-
SERAC1	NM_032861.4	-	CNV analysis in exon 3 will not be performed
SERPINB6	NM_004568.5	-	-
SIX1	NM_005982.4	-	-
SLC12A2	NM_001046.3	-	-
SLC17A8	NM_139319.3	-	-
SLC19A2	NM_006996.3	-	-
SLC22A4	NM_003059.3	-	-
SLC26A4	NM_000441.2	chr7:107301201 (c103T>C) chr7:107334836 (c.1264-12T>A)	CNV analysis in exon 18 will not be performed
SLC26A5	NM_198999.3	-	-
SLC29A3	NM_018344.6	-	CNV analysis in exon 1 will not be performed
SLC4A11	NM_032034.3	-	
SLC52A2	NM_024531.5	-	-
SLC52A3	NM_033409.4		-
SLITRK6	NM_032229.3	-	-
SMPX	NM_014332.3		_

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SNAI2	Gene	Reference Transcript	<b>Additional Evaluations</b>	<b>Technical Limitations</b>
SPATA5	SNAI2	NM_003068.5	-	-
STRC  NM_153700.2   MLPA is performed for exons 19, 23, 24 and 25   CNV analysis in exons 1-18 and 29 will not be performed CNV in exons 20-22 and 26-28 may not be detected or reported	SOX10	NM_006941.4	-	-
STRC¹         NM_153700.2         MLPA is performed for exons 19, 23, 24 and 25         be performed CNV in exons 20-22 and 26-28 may not be detected or reported           SUCLA2         NM_003850.2         -         -           SYNE4         NM_001039876.3         -         -           TBC1D24         NM_001199107.2         -         -           TCOF1         NM_001135243.1         -         -           TECTA         NM_005422.2         -         -           TFAP2A         NM_001372066.1         -         -           TIMMBA         NM_004085.4         -         -           TJP2         NM_004817.4         -         -           TMC1         NM_138691.2         -         -           TMM132E         NM_001304438.2         -         -           TMIE         NM_147196.2         -         -           TMPRSS3         NM_024022.3         -         -           TNC         NM_0010281.3         -         -           TRIOBP         NM_001039141.3         -         -         -           TWINK         NM_001039141.3         -         -         -           TWINK         NM_001039141.3         -         -         - <td>SPATA5</td> <td>NM_145207.3</td> <td>-</td> <td>-</td>	SPATA5	NM_145207.3	-	-
SYNE4         NM_001039876.3         -         -           TBCID24         NM_001199107.2         -         -           TCOFI         NM_001135243.1         -         -           TECTA         NM_005422.2         -         -           TFAP2A         NM_001372066.1         -         -           TIMM8A         NM_004085.4         -         -           TIMP2         NM_004817.4         -         -           TMC1         NM_138691.2         -         -           TMC1         NM_138691.2         -         -           TME NM_001304438.2         -         -         -           TMIE         NM_001304438.2         -         -         -           TMPSS3         NM_02022.3         -         -         -         -           TNC         NM_00128228.3         - <t< td=""><td>STRC<sup>a</sup></td><td>NM_153700.2</td><td>MLPA is performed for exons 19, 23, 24 and 25</td><td>be performed CNV in exons 20–22 and 26–28 may not</td></t<>	STRC <sup>a</sup>	NM_153700.2	MLPA is performed for exons 19, 23, 24 and 25	be performed CNV in exons 20–22 and 26–28 may not
TBCID24         NM_001199107.2         -         -           TCOF1         NM_001135243.1         -         -           TECTA         NM_005422.2         -         -           TFAP2A         NM_001372066.1         -         -           TIMM8A         NM_004085.4         -         -           TJP2         NM_004817.4         -         -           TMC1         NM_138691.2         -         -           TMC2         NM_001304438.2         -         -           TMIE         NM_147196.2         -         -           TMC         NM_024022.3         -         -           TNC         NM_002160.4         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001039141.3         -         Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr22:38119652-38120851)           CNV in exon 7 may not be detected or reported         TWBB4B         NM_006088.6         -         -           TWNK         NM_021830.5         -         -         -           USHIC         NM_153676.4         -         -         -           USHIC         NM_173477.5         - <td>SUCLA2</td> <td>NM_003850.2</td> <td>-</td> <td>-</td>	SUCLA2	NM_003850.2	-	-
TCOF1         NM_001135243.1         -         -           TECTA         NM_005422.2         -         -           TFAP2A         NM_001372066.1         -         -           TIMM8A         NM_004085.4         -         -           TJP2         NM_004817.4         -         -           TMC1         NM_138691.2         -         -           TMC1         NM_138691.2         -         -           TMEMI32E         NM_001394438.2         -         -           TMIE         NM_147196.2         -         -           TMPRSS3         NM_024022.3         -         -           TNC         NM_002160.4         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001128228.3         -         -           TRIOBP         NM_001039141.3         -         Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr2:238119652-38120851)         CNV in exon 7 may not be detected or reported           TUBB4B         NM_006088.6         -         -         -           TWK         NM_005709.4         -         -         -           USHIC         NM_153676.4 <th< td=""><td>SYNE4</td><td>NM_001039876.3</td><td>-</td><td>-</td></th<>	SYNE4	NM_001039876.3	-	-
TECTA         NM_005422.2         -         -           TFAP2A         NM_001372066.1         -         -           TIMM8A         NM_004085.4         -         -           TJP2         NM_004817.4         -         -           TMC1         NM_138691.2         -         -           TMEM32E         NM_001304438.2         -         -           TMIE         NM_147196.2         -         -           TMC         NM_024022.3         -         -           TNC         NM_002160.4         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001039141.3         -         Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr22:38119652-38120851)           CNV in exon 7 may not be detected or reported         -         -           TUBB4B         NM_006088.6         -         -           TWK         NM_021830.5         -         -           USH1C         NM_05709.4         -         -           USH1C         NM_153676.4         -         -           USH1G         NM_173477.5         -         -           USH2A         NM_0102478.4	TBC1D24	NM_001199107.2	-	-
TFAP2A         NM_001372066.1         -         -           TIMM8A         NM_004085.4         -         -           TJP2         NM_004817.4         -         -           TMC1         NM_138691.2         -         -           TME         NM_001304438.2         -         -           TMIE         NM_147196.2         -         -           TMPRSS3         NM_024022.3         -         -           TNC         NM_002160.4         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001039141.3         -         Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr22:38119652-38120851)           TWBB4B         NM_006088.6         -         -           TWNK         NM_021830.5         -         -           USH1C         NM_005709.4         -         -           USH1C         NM_153676.4         -         -           USH2A         NM_206933.3         Chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)           WB92         NM_012478.4         -         -           WFS1         NM_006005.3         -         -         -	TCOF1	NM_001135243.1	-	-
TIMM8A         NM_004085.4         -         -           TJP2         NM_004817.4         -         -           TMC1         NM_138691.2         -         -           TME         NM_001304438.2         -         -           TMIE         NM_147196.2         -         -           TMPRSS3         NM_024022.3         -         -           TNC         NM_002160.4         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001039141.3         -         Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr22:38119652-38120851)           TWBB4B         NM_006088.6         -         -         -           TWNK         NM_021830.5         -         -         -           USH1C         NM_005709.4         -         -         -           USH1C         NM_153676.4         -         -         -           USH2A         NM_206933.3         chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)         -         -           WB92         NM_012478.4         -         -         -           WFS1         NM_006005.3         -         -         - <td>TECTA</td> <td>NM_005422.2</td> <td>-</td> <td>-</td>	TECTA	NM_005422.2	-	-
TJP2         NM_004817.4         -         -           TMC1         NM_138691.2         -         -           TMEM132E         NM_001304438.2         -         -           TMIE         NM_147196.2         -         -           TMPRSS3         NM_024022.3         -         -           TNC         NM_002160.4         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001128228.3         -         -           NM_001128228.3         -         -         -           NM_0012820.3         -         -         -           NM_006088.6         -         -         -           TWNK         NM_021830.5         -         -           USH1C         NM_005709.4         -         -         -           USH1C         NM_153676.4	TFAP2A	NM_001372066.1	-	-
TMC1         NM_138691.2         -         -           TMEM132E         NM_001304438.2         -         -           TMIE         NM_147196.2         -         -           TMC         NM_024022.3         -         -           TNC         NM_001128228.3         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001039141.3         -         Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr22:38119652-38120851)           CNV in exon 7 may not be detected or reported           TWB4B         NM_006088.6         -         -           TWNK         NM_021830.5         -         -           USH1C         NM_005709.4         -         -           USH1C         NM_153676.4         -         -           USH1G         NM_173477.5         -         -           USH2A         NM_206933.3         Chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)           WBP2         NM_012478.4         -         -           WFS1         NM_006005.3         -         -	TIMM8A	NM_004085.4	-	-
TMEM132E         NM_001304438.2         -         -           TMIE         NM_147196.2         -         -           TMPRSS3         NM_024022.3         -         -           TNC         NM_002160.4         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001039141.3         -         Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr22:38119652-38120851)           CNV in exon 7 may not be detected or reported         -         -         -           TWNK         NM_021830.5         -         -         -           USH1C         NM_005709.4         -         -         -           USH1C         NM_153676.4         -         -         -           USH1G         NM_173477.5         -         -         -           USH2A         NM_206933.3         Chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)         -         -           WBP2         NM_012478.4         -         -         -           WFS1         NM_006005.3         -         -         -	TJP2	NM_004817.4	-	-
TMIE         NM_147196.2         -         -           TMPRSS3         NM_024022.3         -         -           TNC         NM_002160.4         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001128228.3         -         -           NM_001128228.3         -         -           NM_00128228.3         -         -           NM_00128228.3         -         -           NM_00128228.3         -         -           CNV in exon 7 may not be detected or reported         -           TWNK         NM_021830.5         -           USHIC         NM_005709.4         -           USHIC         NM_153676.4         -           USHIG         NM_173477.5         -           USH2A         NM_206933.3         chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)           WBP2         NM_012478.4         -           WFS1         NM_006005.3         -	TMC1	NM_138691.2	-	-
TMPRSS3         NM_024022.3         -         -           TNC         NM_002160.4         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001039141.3         -         Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr22:38119652-38120851)           TWN in exon 7 may not be detected or reported         -         -         -           TWNK         NM_021830.5         -         -         -           USH1C         NM_005709.4         -         -         -           USH1C         NM_153676.4         -         -         -           USH1G         NM_173477.5         -         -         -           USH2A         NM_206933.3         chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)         -         -           WBP2         NM_012478.4         -         -         -           WFS1         NM_006005.3         -         -         -	TMEM132E	NM_001304438.2	-	-
TNC         NM_002160.4         -         -           TPRN         NM_001128228.3         -         -           TRIOBP         NM_001039141.3         -         Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr22:38119652-38120851)           CNV in exon 7 may not be detected or reported         -         -           TWNK         NM_021830.5         -           USH1C         NM_005709.4         -           USH1C         NM_153676.4         -           USH1G         NM_173477.5         -           USH2A         NM_206933.3         chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)           WBP2         NM_012478.4         -         -           WFS1         NM_006005.3         -         -         -	TMIE	NM_147196.2	-	-
TPRN NM_001128228.3 - Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr22:38119652-38120851) CNV in exon 7 may not be detected or reported  TUBB4B NM_006088.6	TMPRSS3	NM_024022.3	-	-
TRIOBP  NM_001039141.3  -   Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr22:38119652-38120851)  CNV in exon 7 may not be detected or reported  TUBB4B  NM_006088.6  -   TWNK  NM_021830.5  -   USH1C  NM_105709.4  -   USH1C  NM_153676.4  -   USH1G  NM_173477.5  -   USH2A  NM_206933.3  Chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)  WBP2  NM_012478.4  -   NM_006005.3  -   Analyses for sequence variants and CNV will not be performed in a portion of exon 7 (chr2:38119652-38120851)  CNV in exon 7 may not be detected or reported  -   CNV in exon 7 may not be detected or reported  -   USH1C  NM_005709.4  -   Chr1:216592035 (c.486-14G>A) chr1:216592035 (c.486-14G>A) -   Chr1:216064540 (c.7595-2144A>G)	TNC	NM_002160.4	-	-
TRIOBP  NM_001039141.3  - will not be performed in a portion of exon 7 (chr22:38119652-38120851)  CNV in exon 7 may not be detected or reported  TUBB4B  NM_006088.6	TPRN	NM_001128228.3	-	-
TUBB4B         NM_006088.6         -         -           TWNK         NM_021830.5         -         -           USH1C         NM_005709.4         -         -           USH1C         NM_153676.4         -         -           USH1G         NM_173477.5         -         -           USH2A         NM_206933.3         chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)         -           WBP2         NM_012478.4         -         -           WFS1         NM_006005.3         -         -	TRIOBP	NM_001039141.3	-	will not be performed in a portion of exon 7 (chr22:38119652-38120851)
TWNK         NM_021830.5         -         -           USH1C         NM_005709.4         -         -           USH1C         NM_153676.4         -         -           USH1G         NM_173477.5         -         -           USH2A         NM_206933.3         chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)         -           WBP2         NM_012478.4         -         -           WFS1         NM_006005.3         -         -	TI IRR/IR	NM 0060886	_	-
USH1C         NM_005709.4         -         -           USH1C         NM_153676.4         -         -           USH1G         NM_173477.5         -         -           USH2A         NM_206933.3         chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)         -           WBP2         NM_012478.4         -         -           WFS1         NM_006005.3         -         -			_	_
USH1C         NM_153676.4         -         -           USH1G         NM_173477.5         -         -           USH2A         NM_206933.3         chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)         -           WBP2         NM_012478.4         -         -           WFS1         NM_006005.3         -         -			_	
USH1G         NM_173477.5         -         -           USH2A         NM_206933.3         chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)         -           WBP2         NM_012478.4         -         -           WFS1         NM_006005.3         -         -			_	_
USH2A         NM_206933.3         chr1:216592035 (c.486-14G>A) chr1:216064540 (c.7595-2144A>G)           WBP2         NM_012478.4         -         -           WFS1         NM_006005.3         -         -			_	_
WFS1 NM_006005.3			· · · · · · · · · · · · · · · · · · ·	
	WBP2	NM_012478.4	-	-
WHRN NM_015404.4	WFS1	NM_006005.3	-	-
	WHRN	NM_015404.4	-	-

<sup>&</sup>lt;sup>a</sup> Sequence variants in *CATSPER2* are not detected. Deletions in *CATSPER2* are only reported if a deletion in *STRC* is also identified. Additionally, duplications in the *STRC / CATSPER2* region may not be reported as exact breakpoints cannot be determined. To date, duplications in this region have not been associated with heaing loss and/or male infertility. When *STRC* is ordered via Custom Gene Panel, Hereditary (CGPH), the lab will add *CATSPER2* to the order if the client has not already inclued this gene.

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b Large deletions adjacent to *GJB2* have been associated with *GJB2*-mediated autosomal recessive hearing loss. In order to identify these pathogenic deletions, copy number changes in *GJB6* and *CRYL1* are assessed. As these deletions disrupt *GJB2* function, these findings are only reported in the context of *GJB2*, and sequence variants in the *CRYL1* and *GJB6* genes are not detected or reported. When *GJB2* is ordered via Custom Gene Panel, Hereditary (CGPH), the lab will add *GJB6* and *CRYL1* to the order if the client has not already included these genes to appropriately assess the DFNB1 locus.

#### Available AudioloGene Hearing Loss Panels

Test ID	Test Name	Genes
AHLP	AudioloGene Hearing Loss Panel	ABHD12, ACTG1, ADCY1, ADGRV1 (GPR98), AIFM1, ALMS1, ARSG, ATP2B2, ATP6V1B1, ATP6V1B2, BCS1L, BSND, BTD, CABP2, CACNA1D, CATSPER2, CCDC50, CD164, CDC14A, CDH23, CEACAM16, CEP250, CEP78, CHD7, CIB2, CISD2, CLDN14, CLIC5, CLPP, CLRN1, COCH, COL11A1, COL11A2, COL2A1, COL4A3, COL4A4, COL4A5, COL4A6, COL9A1, COL9A2, COL9A3, CRYL1, CRYM, DCDC2, DIABLO, DIAPH1, DIAPH3, DMXL2, DNMT1, DSPP, EDN3, EDNRB, ELMOD3, EPS8, EPS8L2, ESPN, ESRRB, EYA1, EYA4, FDXR, FGF3, FGFR2, FGFR3, FITM2, FLNA, FOXC1, FOXI1, GATA3, GIPC3, GJB2 (DFNB1; with CRYL1 and GJB6), GJB6, GPSM2, GREB1L, GRHL2, GSDME, GRXCR1, GRXCR2, HARS2, HGF, HOMER2, HOXA2, HSD17B4, ILDR1, KARS1, KCNE1, KCNJ10, KCNQ1, KCNQ4, KITLG, LARS2, LHFPL5, LMX1A, LOXHD1, LRP2, LRTOMT, MAN2B1, MANBA, MARVELD2, MCM2, MET, MIR96, MITF, MPZL2, MSRB3, MT-RNR1, MT-TS1, MYH14, MYH9, MYO15A, MYO3A, MYO6, MYO7A, NARS2, NDRG1, NF2, NLRP3, OPA1, OSBPL2, OTOA, OTOF, OTOG, OTOGL, P2RX2, PAX3, PCDH15, PDZD7, PEX1, PEX10, PEX11B, PEX12, PEX13, PEX14, PEX16, PEX19, PEX2, PEX26, PEX3, PEX5, PEX6, PEX7, PHYH, PJVK, PLS1, PNPT1, POLR1B, POLR1C, POLR1D, POU3F4, POU4F3, PRPS1, PTPN11, PTPRQ, RAI1, RDX, RIPOR2, RMND1, S1PR2, SALL1, SERAC1, SERPINB6, SIX1, SLC12A2, SLC17A8, SLC19A2, SLC22A4, SLC26A4, SLC26A5, SLC29A3, SLC4A11, SLC52A2, SLC52A3, SLITRK6, SMPX, SNAI2, SOX10, SPATA5, STRC, SUCLA2, SYNE4, TBC1D24, TCOF1, TECTA, TFAP2A, TIMM8A, TJP2, TMC1, TMEM132E, TMIE, TMPRSS3, TNC, TPRN, TRIOBP, TUBB4B, TWNK, USH1C, USH1G, USH2A, WBP2, WFS1, and WHRN

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