nova™ Hereditary Hearing Loss Genetic Testing

Genetic factors play a role in up to two thirds of all childhood hearing loss. Molecular genetic testing assists otologists by providing insight into the etiology of hearing loss in children.

Product Introduction:

By using high-throughput sequencing technology, this test could detect, analysis and interpret 218 common hereditary deafness related genes, both non syndromic and syndromic, providing insight into the etiology of hearing loss, which may lead to better patient care.

Comprehensive, Coordinated Testing

Customized Test Results

Whole Exon Data Available

- Accurate determination of the etiology of the patient's hearing loss.
- Reduction or elimination of the need for further invasive and costly diagnostic tests.
- Basis for prognostic information about future hearing and potential medical complications.
- Guidance regarding treatment and long-term medical management, particularly for young infants.
- Definitive information on which to base family genetic counseling.

Product Code:
HW1206

Sequencing Platform:
DNBSEQ-G400

Sample Type:
2-5ml Blood

Turnaround Time:
27 Days

Gene and Condition Lists:

Conditions	Genes
Autosomal recessive nonsyndromic hearing loss (72 genes)	*ADCY1,BDP1,BSND,CABP2,CDC14A,CDH23,CIB2,CLDN14,CLDN9,CLIC5,COL11A2,DCDC2,PJVK,ELMOD3,EPS8,EPS8L2,ESPN,ESRP1,ESRRB,FAM65B,GAB1,GIPC3,GJB2,GJB3,GJB6,GRAP,GRXCR1,GRXCR2,HGF,ILDR1,KARS1,LHFPL5,LOXHD1,LRTOMT,MARVELD2,MET,MPZL2,MSRB3,MYO15A,MYO3A,MYO7A,NARS2,OTOA,OTOF,OTOG,OTOGL,PCDH15,PDZD7,PNPT1,PPIP5K2,PTPRQ,RDX,ROR1,S1PR2,SERPINB6,SLC26A4,SLC26A5,SPNS2,STRC,SYNE4,TBC1D24,TECTA,TMC1,TMEM132E,TMIE,TMPRSS3,TPRN,TRIOBP,TSPEAR,USH1C,WBP2,WHRN*
Autosomal dominant nonsyndromic hearing loss (46 genes)	*ABCC1,ACTG1,CCDC50,CD164,CEACAM16,COCH,COL11A1,COL11A2,CRYM,GSDME,DIABLO,DIAPH1,DIAPH3,DMXL2,EYA4,GJB2,GJB3,GJB6,GRHL2,HOMER2,KCNQ4,KITLG,LMX1A,MCM2,MIR96,MYH14,MYH9,MYO6,MYO7A,NLRP3,OSBPL2,P2RX2,PDE1C,PLS1,POU4F3,REST,SIX1,SLC17A8,SLC44A4,TBC1D24,TECTA,TJP2,TMC1,TNC,TRRAP,WFS1*
X-link hereditary hearing loss (6 genes)	*AIFM1,COL4A6,GPRASP2,POU3F4,PRPS1,SMPX*
Y-link hereditary hearing loss (1 gene)	*TBL1Y*
Maternally inherited hearing loss (5 genes)	*MT-RNR1,MT-TS1,MT-TE,MT-TK,MT-TL1*
Syndromic hearing loss (119 genes)	*ABHD12,ACOX1,ACTG1,ADGRV1,AIFM1,ALMS1,AMMECR1,ARSG,ATP1A3,ATP6V1B1,ATP6V1B2,BCAP31,BCS1L,BMP1,BSND,C10orf2,CACNA1D,CD151,CDH23,CEP250,CEP78,CHD7,CIB2,CISD2,CLPP,CLRN1,COL11A1,COL11A2,COL1A1,COL1A2,COL2A1,COL4A3,COL4A4,COL4A5,COL9A1,COL9A2,COL9A3,COQ6,CRTAP,DLX5,DMXL2,DNAJC3,DNMT1,DSPP,EDN3,EDNRB,ERAL1,EXOSC2,EYA1,FDXR,FGF3,FGFR2,FKBP10,FKBP14,FLNA,FOXI1,GATA3,GFER,GJB2,GPSM2,GRHL2,HARS2,HOXA2,HSD17B4,IARS2,IFITM5,IGF1,KCNE1,KCNJ10,KCNQ1,LARS2,MITF,MYH9,MYO7A,NARS2,NDP,NF2,NLRP3,OPA1,P3H1,PAX3,PCDH15,PDSS1,PDSS2,PEX1,PEX6,POLD1,PPIB,PRPS1,SERAC1,SERPINF1,SERPINH1,SIX5,SLC19A2,SLC26A4,SLC33A1,SLC4A11,SLC52A2,SLC52A3,SLC9A1,SLITRK6,SMPX,SNAI2,SOX10,SP7,SPARC,SPATA5,SPTBN4,TBC1D24,TBX1,TCOF1,TIMM8A,TRRAP,TUBB4B,USH1C,USH1G,USH2A,WFS1,WHRN*

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