

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.

- 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:

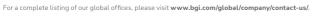
27 Days

Gene and Condition Lists:

Conditions	Genes
Autosomal recessive nonsyndromic hearing loss (72 genes)	ADCY1,BDP1,BSND,CABP2,CDC14A,CDH23,CIB2,CLDN14,CLDN9,CLIC 5,COL11A2,DCDC2,PJVK,ELMOD3,EPS8,EPS8L2,ESPN,ESRP1,ESRRB,F AM65B,GAB1,GIPC3,GJB2,GJB3,GJB6,GRAP,GRXCR1,GRXCR2,HGF,ILD R1,KARS1,LHFPL5,LOXHD1,LRTOMT,MARVELD2,MET,MPZL2,MSRB3, MY015A,MY03A,MY07A,NARS2,OTOA,OTOF,OTOG,OTOGL,PCDH15,P DZD7,PNPT1,PPIP5K2,PTPRQ,RDX,ROR1,S1PR2,SERPINB6,SLC26A4,S LC26A5,SPNS2,STRC,SYNE4,TBC1D24,TECTA,TMC1,TMEM132E,TMIE,T MPRSS3,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,MY O6,MYO7A,NLRP3,OSBPL2,P2RX2,PDE1C,PLS1,POU4F3,REST,SIX1,SL C17A8,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,ATP 1A3,ATP6V1B1,ATP6V1B2,BCAP31,BCS1L,BMP1,BSND,C10orf2,CACN A1D,CD151,CDH23,CEP250,CEP78,CHD7,CIB2,CISD2,CLPP,CLRN1,COL1 1A1,COL11A2,COL1A1,COL1A2,COL2A1,COL4A3,COL4A4,COL4A5,CO L9A1,COL9A2,COL9A3,COQ6,CRTAP,DLX5,DMXL2,DNAJC3,DNMT1,DS PP,EDN3,EDNRB,ERAL1,EXOSC2,EYA1,FDXR,FGF3,FGFR2,FKBP10,FKB P14,FLNA,FOXI1,GATA3,GFER,GJB2,GPSM2,GRHL2,HARS2,HOXA2,HS D17B4,IARS2,IFITM5,IGF1,KCNE1,KCNJ10,KCNQ1,LARS2,MITF,MYH9,M YO7A,NARS2,NDP,NF2,NLRP3,OPA1,P3H1,PAX3,PCDH15,PDSS1,PDSS 2,PEX1,PEX6,POLD1,PPIB,PRPS1,SERAC1,SERPINF1,SERPINH1,SIX5,SL C19A2,SLC26A4,SLC33A1,SLC4A11,SLC52A2,SLC52A3,SLC9A1,SLITR K6,SMPX,SNAI2,SOX10,SP7,SPARC,SPATA5,SPTBN4,TBC1D24,TBX1,TC OF1,TIMM8A,TRRAP,TUBB4B,USH1C,USH1G,USH2A,WFS1,WHRN

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The product is only used for in vitro diagnosis.

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