

Hearing Loss Panel Gene and Disease List

Disease	Genes
DFNA	ACTB , CCDC50 , CEACAM16 , COCH , CRYM , ICERE1 , DIABLO , DIAPH1 , DSPP , EYA4 , GJB3 , GRHL2 , HOMER2 , KCNQ4 , KITLG , MCM2 , miR96 , MYH14 , MYH9 , P2RX2 , POU4F3 , SLC17A8 , SLC26A5 , TBC1D24 , TJP2 , TMC1 , TNC , WFS1
DFNB	ACTG1 , CABP2 , CDC14A , CLDN14 , ELMOD3 , ESPN , ESRRB , GIPC3 , GJB2 , GJB6 , GRXCR1 , GRXCR2 , HGF , ILDR1 , KARS , CEMIP , LHFPL5 , LOXHD1 , LRTOMT , MARVELD2 , MET , MSRB3 , MYO15A , MYO3A , MYO6 , OTOA , OTOF , OTOG , OTOGL , PDZD7(DFNB57) , PJVK , PNPT1 , PTPRQ , RDX , RIPOR2 , S1PR2 , SERPINB6 , STRC , SYNE4 , TECTA , TMIE , TMPRSS3 , TPRN , TRIOBP
DFNX	AIFM1 , POU3F4 , PRPS1
Aminoglycoside-Associated Deafness Genes	MT-CO1 , MT-TE , MT-RNR1
Mitochondria-Associated Hearing Loss Genes	MT-TD , MT-TH , MT-TI , MT-TK , MT-TL1 , MT-TL2 , MT-TM , MT-TQ , MT-TS1 , MT-TS2
Other Deafness-Associated Genes	ECE1 , EDNRA , ERCC2 , ERCC3 , FAS , GJB4 , GSTP1 , HAL , FGF3 , FGFR3 , GATA3 , GJA1 , JAG1 , LHX3 , NF2 , MIR182 , MIR183 , MTAP , MYO1A , MYO1C , MYO1F , NDP , NR2F1 , OTOR , PMP22 , SLC4A11 , SNAI2 , SOX2 , SPINK5 , TBL1X , TCF21 , TFCP2 , TMPRSS5
Distal Renal Tube Acidosis and Progressive Deafness	ATP6V1B1
DDOD Syndrome	ATP6V1B2
Bjornstad Syndrome (BJS)	BCS1L

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Sensorineural Deafness with Mild Renal Dysfunction; Bartter Syndrome, Type 4a	BSND (DFNB73)
Biotinidase Deficiency	BTD
Male Infertility	CATSPER2
Usher Syndrome	MYO7A (USH1B/DFNB2/DFNA11) , USH1C (DFNB18/PDZD7C) , CDH23 (USH1D/DFNB12) , PCDH15 (USH1F/DFNB23) , USH1G (SANS) , CIB2 (USH1J/DFNB48) , USH2A (Usherin) , ADGRV1 (USH2B/2C) , WHRN (USH2D/DFNB31) , CLRN1 (USH3A)
Stickler Syndrome	COL11A1 (STL2) , COL11A2 (STL3/DFNA13/DFNB53) , COL2A1 (STL1) , COL9A2 (STL5) , COL9A3
Alport Syndrome (X-linked)	COL4A3 , COL4A4 , COL4A5 , COL4A6 (DFNX6)
Waardenburg Syndrome (WS)	EDNRB , EDN3 , MITF , PAX3 , SMPX , SOX10
Branchiootorenal Syndrome (BOR)	EYA1 , SIX1(DFNA23) , SIX5
Enlarged Vestibular Aqueduct (EVA)	FOXI1 , KCNJ10 , SLC26A4 (Pendred Syndrome)
X-linked Dominant Charcot-Marie-Tooth Disease	GJB1(Cx32) , TIMM8A
Chudley-McCullough Syndrome	GPSM2
Jervell and Lange-Nielsen Syndrome, Deafness and LQT	KCNE1 , KCNQ1
Refsum Disease	PEX7 , PHYH