**Table S1.** NCBI reference sequences of the 30-gene panel.

| | NCBI Reference Sequence |
|---|---|
| *AIFM1* | NM_004208 / NP_004199 |
| *DIAPH3* | NM_001042517 / NP_001035982 |
| *EDN3* | NM_000114 / NP_996917 |
| *EDNRB* | NM_001201397 / NP_001188326 |
| *EYA1* | NM_000503 / NP_000494 |
| *FOXI1* | NM_012188 / NP_036320 |
| *GJA1* | NM_000165 / NP_000156 |
| *GJB1* | NM_001097642 / NP_001091111 |
| *GJB2* | NM_004004 / NP_003995 |
| *GJB3* | NM_024009 / NP_076872 |
| *GJB4* | NM_153212 / NP_694944 |
| *GJB6* | NM_006783 / NP_006774 |
| *KCNJ10* | NM_002241 / NP_002232 |
| *KCNQ4* | NM_004700 / NP_004691 |
| *MITF* | NM_198159 / NP_001171896 |

*Continued on the next page*

**Table S1 (con't).** NCBI reference sequences of the 30-gene panel.

| | **NCBI Reference Sequence** |
|---|---|
| *MYO15A* | NM_016239 / NP_057323 |
| *OTOF* | NM_004802 / NP_004793 |
| *PAX3* | NM_181459 / NP_852124 |
| *PCDH9* | NM_203487 / NP_982354 |
| *POU3F4* | NM_000307 / NP_000298 |
| *POU4F3* | NM_002700 / NP_002691 |
| *PJVK* | NM_001042702 / NP_001036167 |
| *SIX1* | NM_005982 / NP_005973 |
| *SIX5* | NM_175875 / NP_787071 |
| *SLC26A4* | NM_000441 / NP_000432 |
| *SNAI2* | NM_003068 / NP_003059 |
| *SOX10* | NM_006941 / NP_008872 |
| *STRC* | NM_153700 / NP_714544 |
| *MT-RNR1 / MT-TL1* | NC_012920 |

**Table S2.** Causative variants of the relevant genes (GJB2).

| Gene | Variants | Number of Patients |
|---|---|---|
| *GJB2* | c.109G>A (p.V37I)/ c.109G>A (p.V37I) | 89 |
| | c.109G>A (p.V37I)/c.235delC (p.L79Cfs *3) | 6 |
| | c.235delC (p.L79Cfs *3)/ c.235delC (p.L79Cfs *3) | 5 |
| | c.109G>A (p.V37I)/c.101T>C (p.M34T) | 1 |
| | c.109G>A (p.V37I)/c.283G>A (p.V95M) | 1 |
| | c.109G>A (p.V37I)/c.571T>C (p.F191L) | 1 |
| | c.109G>A (p.V37I)/c.609C>G (p.I203M) | 1 |
| | c.109G>A (p.V37I)/c.494G>A (p.R165Q) | 1 |
| | c.235delC (p.L79Cfs *3)/c.35dup (p.V13fs) | 1 |
| | c.223C>T (p.R75W) | 1 |
| | c.508_511dupAACG (p.A171Qfs *40) | 1 |

**Table S3.** Causative variants of the relevant genes (SLC26A4 and OTOF)**.**

| Gene | Variants | Number of Patients |
|---|---|---|
| *SLC26A4* | c.919-2A>G/ c.919-2A>G | 15 |
| | c.919-2A>G/c.1975G>C (p.V659L) | 3 |
| | c.919-2A>G/c.2168A>G (p.H723R) | 2 |
| | c.919-2A>G/c.1160C>T (p.A387V) | 1 |
| | c.919-2A>G/c.1174A>T (p.N392Y) | 1 |
| | c.919-2A>G/c.1225C>T (p.R409C) | 1 |
| | c.919-2A>G/c.1229C>T (p.T410M) | 1 |
| | c.919-2A>G/c.1271G>A(p.G424D) | 1 |
| | c.919-2A>G/c.1716T>A (p.F572L) | 1 |
| | c.919-2A>G/c.1786C>T (p.Q596Ter) | 1 |
| | c.919-2A>G/c.751_752delCTinsTC (p.Leu251Ser) | 1 |
| | c.1262A>C (p.Q421P)/c.1707+5G>A | 1 |
| *OTOF* | c.5098G>C (p.E1700Q)/ c.5098G>C (p.E1700Q) | 3 |
| | c.5098G>C (p.E1700Q)/c.5975A>G (p.K1992R) | 4 |

**Table S4.** Causative variants of the relevant genes (MYO15A)**.**

| Gene | Variants | Number of Patients |
|---|---|---|
| *MYO15A* | c.3524dup (p.S1176fs)/ c.3524dup (p.S1176fs) | 2 |
| | c.3524dup (p.S1176fs)/c. 8828dupT (p.S2945Ffs*55) | 1 |
| | c.3524dup (p.S1176fs)/c.10250_10252delCCT (p.S3417del) | 1 |
| | c.3524dup (p.S1176fs)/c.3757-32_3757-1del | 1 |
| | c.3524dup (p.S1176fs)/c.6863C>T (p.S2288L) | 1 |
| | c.3524dup (p.S1176fs)/c.6956+1G>A | 1 |
| | c.3524dup (p.S1176fs)/c.7708_7709insCA (p.Q2571Hfs*35) | 1 |
| | c.3742C>T (p.R1248W)/c.4304A>C (p.Y1435S) | 1 |
| | c.3926A>T (p.Q1309L)/c.10250_10252delCCT (p.S3417del) | 1 |
| | c.4642G>A (p.A1298T)/c.3958G>A (p.G1320S) | 1 |
| | c.7711_7712dupCA (p.Gln2571HisfsTer35)/c. 8340+5G>A | 1 |
| | c.10250_10252delCCT (p.S3417del)/c.10258_10260delTTC (p.F3420del) | 1 |