

Supplementary Table S1. 58 deafness-causative genes.

| No | Locus Symbol | Gene Symbol | Gene ID | Transcript Variant |
|-----------|---------------------|--------------------|----------------|--|
| 1 | DFNA1 | <i>DIAPH1</i> | NM_005219 | NM_001079812 |
| 2 | DFNA2 | <i>KCNQ4</i> | NM_004700 | NM_172163 |
| 3 | DFNA2 | <i>GJB3</i> | NM_024009 | NM_001005752 |
| 4 | DFNA3 | <i>GJB6</i> | NM_006783 | NM_001110219 NM_001110220 NM_001110221 |
| 5 | DFNA4 | <i>MYH14</i> | NM_024729 | NM_001145809 NM_001077186 |
| 6 | DFNA5 | <i>DFNA5</i> | NM_004403 | NM_001127454 NM_001127453 |
| 7 | DFNA6/14/38 | <i>WFS1</i> | NM_006005 | NM_001145853 |
| 8 | DFNA8/12/DFNB21 | <i>TECTA</i> | NM_005422 | - |
| 9 | DFNA9/31 | <i>COCH</i> | NM_004086 | NM_001135058 |
| 10 | DFNA10 | <i>EYA4</i> | NM_004100 | NM_172103 NM_172105 |
| 11 | DFNA11/DFNB2/USH1B | <i>MYO7A</i> | NM_000260 | NM_001127179 NM_001127180 |
| 12 | DFNA13/DFNB53/STL3 | <i>COL11A2</i> | NM_080680 | NM_080679 NM_080681 NM_001163771 |
| 13 | DFNA15 | <i>POU4F3</i> | NM_002700 | - |
| 14 | DFNA17 | <i>MYH9</i> | NM_002473 | - |
| 15 | DFNA20/DFNA26 | <i>ACTG1</i> | NM_001614 | NM_001199954 |
| 16 | DFNA22/DFNB37 | <i>MYO6</i> | NM_004999 | - |
| 17 | DFNA25 | <i>SLC17A8</i> | NM_139319 | NM_001145288 |
| 18 | DFNA28 | <i>GRHL2</i> | NM_024915 | - |
| 19 | DFNA36/DFNB7/11 | <i>TMC1</i> | NM_138691 | - |
| 20 | DFNA40 | <i>CRYM</i> | NM_001888 | NM_001014444 |
| 21 | DFNA44 | <i>CCDC50</i> | NM_178335 | NM_174908 |
| 22 | DFNA48 | <i>MYO1A</i> | NM_005379 | - |

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| 23 | DFNA51 | <i>TJP2</i> | NM_001170414 | NM_004817 NM_201629 NM_001170630 NM_001170415 NM_001170416 |
| 24 | DFNA64 | <i>DIABLO</i> | NM_019887 | NM_138929 |
| 25 | | <i>CEACAM16</i> | NM_001039213 | - |
| 26 | DFNB1/DFNA3 | <i>GJB2</i> | NM_004004 | - |
| 27 | DFNB3 | <i>MYO15A</i> | NM_016239 | - |
| 28 | DFNB4/Pendred | <i>SLC26A4</i> | NM_000441 | - |
| 29 | DFNB6 | <i>TMIE</i> | NM_147196 | - |
| 30 | DFNB8/10 | <i>TMPRSS3</i> | NM_024022 | NM_032405 |
| 31 | DFNB9 | <i>OTOF</i> | NM_194248 | NM_194322 NM_194323 NM_004802 |
| 32 | DFNB12/USH1D | <i>CDH23</i> | NM_022124 | NM_001171930 NM_001171931 NM_001171932 NM_001171933 NM_001171934 NM_001171936 NM_052836 |
| 33 | DFNB15/72/95 | <i>GIPC3</i> | NM_133261 | - |
| 34 | DFNB16 | <i>STRC</i> | NM_153700 | - |
| 35 | DFNB18/USH1C | <i>USH1C</i> | NM_153676 | NM_005709 |
| 36 | DFNB22 | <i>OTOA</i> | NM_144672 | NM_001161683 NM_170664 |

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|----|--------------|-----------------|--------------|--|
| 37 | DFNB23/USH1F | <i>PCDH15</i> | NM_033056 | NM_001142763 NM_001142764 NM_001142765 NM_001142766 NM_001142767 NM_001142769 NM_001142770 NM_001142771 NM_001142772 NM_001142773 |
| 38 | DFNB24 | <i>RDX</i> | NM_002906 | - |
| 39 | DFNB25 | <i>GRXCR1</i> | NM_001080476 | - |
| 40 | DFNB28 | <i>TRIOBP</i> | NM_007032 | NM_138632 NM_001039141 |
| 41 | DFNB29 | <i>CLDN14</i> | NM_144492 | NM_001146077 NM_001146078 NM_001146079 NM_012130 |
| 42 | DFNB30 | <i>MYO3A</i> | NM_017433 | - |
| 43 | DFNB31/USH2D | <i>WHRN</i> | NM_015404 | |
| 44 | DFNB35 | <i>ESRRB</i> | NM_004452 | - |
| 45 | DFNB36 | <i>ESPN</i> | NM_031475 | - |
| 46 | DFNB39 | <i>HGF</i> | NM_000601 | NM_001010931 NM_001010932 NM_001010933 NM_001010934 |
| 47 | DFNB42 | <i>ILDR1</i> | NM_001199799 | NM_001199800 NM_175924 |
| 48 | DFNB49 | <i>MARVELD2</i> | NM_001038603 | NM_001244734 |
| 49 | DFNB59 | <i>PJVK</i> | NM_001042702 | |
| 50 | DFNB61 | <i>SLC26A5</i> | NM_206883 | NM_001167962 NM_206884 |

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|----|-----------|----------------|--------------|--------------|
| | | | | NM_206885 |
| | | | | NM_198999 |
| 51 | DFNB63 | <i>LRTOMT</i> | NM_001145307 | NM_001145308 |
| | | | | NM_001205138 |
| | | | | NM_145309 |
| 52 | DFNB66/67 | <i>LHFPL5</i> | NM_182548 | - |
| 53 | DFNB74 | <i>MSRB3</i> | NM_198080 | NM_001031679 |
| | | | | NM_001193460 |
| | | | | NM_001193461 |
| 54 | DFNB77 | <i>LOXHD1</i> | NM_144612 | NM_001173129 |
| | | | | NM_001145472 |
| | | | | NM_001145473 |
| 55 | DFNB79 | <i>TPRN</i> | NM_001128228 | - |
| 56 | DFNB82 | <i>GPSM2</i> | NM_013296 | - |
| 57 | DFNB84 | <i>PTPRQ</i> | NM_001145026 | - |
| 58 | DFNB91 | <i>SERPIN6</i> | NM_004568 | NM_001195291 |
