Supplementary Table S3. Comparison between the current algorithm and VipR

| gene | mutation | mutations detected by Sanger sequencing | mutations detected by current MPS algorithm | mutations detected by VipR |
|------|----------|------|------|------|
| *GJB2* | G45E; Y136X | 10 | 10 | 10 |
| | V37I | 6 | 6 | 6 |
| | T8M | 1 | 1 | 1 |
| | T86R | 1 | 1 | 1 |
| | R143W | 3 | 3 | 0 |
| | 235delC | 36 | 36 | * |
| | 35insG | 1 | 1 | * |
| | 176_191 del16 | 3 | 3 | * |
| | 299_300delAT | 5 | 5 | * |
| | 511insAACG | 2 | 0 | * |
| *SLC26A4* | H723R | 13 | 13 | 13 |
| | T410M | 4 | 4 | 4 |
| | 919-2A>G | 2 | 2 | 2 |
| | M147V | 1 | 1 | 0 |
| | T527P | 1 | 1 | 0 |
| | S532I | 1 | 0 | 0 |
| | R581S | 1 | 0 | 0 |
| | 2111insGCTGG | 1 | 0 | * |
| | 1652insT | 1 | 0 | * |
| total | | 93 | 87 | 37 |

* VipR program could not pick up deletion/insertion mutation