Supplemental Data 1. Pathogenicity grades

	Pathogenic	UV4	UV3	UV2	UV1	Neutral
Frequency in ethnically matching controls (N=876 chromosomes) ≤ 0.236%	yes	yes	yes	yes*	unknown	no
In trans with a 'Pathogenic' or 'UV4' mutation	yes	yes	unknown	unknown	unknown	no
Segregates with disease in >2 NCUS families or previously published as 'Pathogenic' or 'UV4'	yes	no	no	no	no	no
Novel, segregates with disaese in only one NCUS family	Not applicable	yes	yes	yes	no	no
Indentified in proband with one or two other mutations with a higher pathogenicity grade	no	no	no	no	yes or unknown	yes or unknown

^{*}Genotyped in 96 CEPH control chromosomes

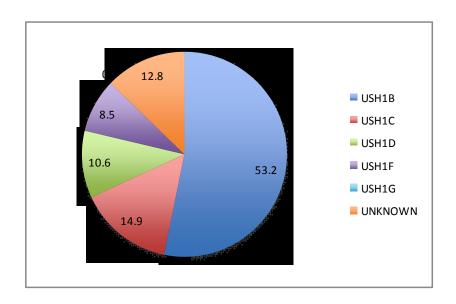
Supplemental Data 2. USH1C:c.496+1G>A assay

The following primers were used: forward 5'-TAGGGGACGAGATCGTCCGGATCA-3' and reverse (introduced mutation is underlined): 5'-

TGGAGTACTGCCCTGCTCTGGCCTCACACA-3'. The reverse primer was designed in order to create an artificial restriction site in c.496+1G>A mutant sequence, but not the wild type, using the web-based program dCAPS Finder v2.[21] For each PCR reaction 1ng/μl genomic DNA was amplified with 0.5pmol/μl of each primer, 1M betaine (Sigma-Aldrich), 0.25mM dNTPs (Microzone Ltd), 1x buffer, 1.5mM MgCl₂ and 0.5% BIOTAQTM DNA polymerase (all Bioline). The PCR program consisted of a denaturation step of 10 min at 95°C, followed by 37 cycles of 30 sec at 95°C, 30 sec at 61°C, 40 sec at 72°C and a final extension at 72°C for 10 min. Restriction digests were prepared using *PciI* (New England Biolabs) according to manufacturer's instructions. The digested product was run on 4% agarose gel.

Supplemental Data 3.

a) Relative proportions of molecular subtypes in Usher Type 1



b) Relative proportions of molecular subtypes in Usher Type 2

