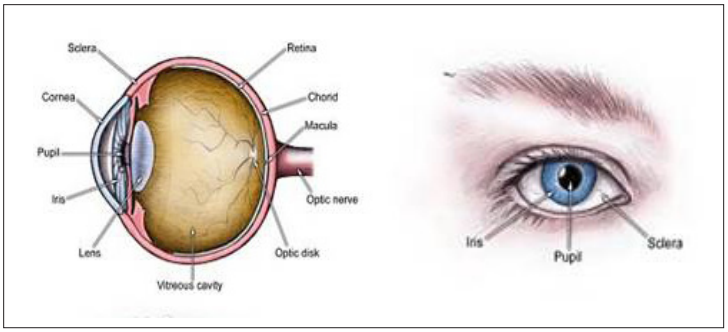
Usher Gene Panel

Usher syndrome is thought to be responsible for 3 to 10% of all childhood deafness and about 50% of deaf-blindness in adults. The syndrome is a genetic defect causing congenital deafness and retinitis pigmentosa. Retinitis pigmentosa causes degeneration of the retinal cells, loss of visual acuity and visual fields, and progresses to complete blindness (often in the teens to 20's).

Usher syndrome is associated with mutations in any one of 10 genes. Otogenetics Usher Panel allows for the sequencing of these 10 genes at >100x coverage.

It is beneficial to diagnose children before they develop the characteristic night blindness. This allows for a more focused medical management for the patient and family.

Treatment strategies include cochlear implants for hearing loss, intervention strategies to help slow or stop the progression of retinitis pigmentosa and early educational programs including low-vision services.



Test Name:	Order #:
Usher Panel	Oto-Ush
Turn-Around-Time:	
Approximately 5-6 weeks (Expedited service available)	
Specimen Requirement:	
• 2-5ml whole blood in EDTA or citric collection tubes • Saliva in saliva collection kit • Genomic DNA	

Usher Panel Gene List

Type	Gene	OMIM (Online Mendelian Inheritance in Man)	Exons	CDS size(bp)
USH1D	CDH23	601067	67	10056
USH3A	CLRN1	276902	6	3525
USH2C	GPR98	605472	90	18921
Ush1B	MYO7A	276900	48	6648
USH1F	PCDH15	602083	35	5808
USH1C	USH1C	276904	27	2700
USH1G	USH1G	606943	3	1386
USH2A	USH2A	276901	71	15609
USH2D	DFNB31	611383	12	2721
PDZD7	PDZD7	605472	16	3102

Other disease panels available.
Visit www.otogenetics.com to learn more.

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