

Variant: NM_206933.2(USH2A):c.5039A>G (p.Lys1680Arg)

Version: 1.2

CA179559 [↗](#)

166499 (ClinVar) [↗](#)

Gene: USH2A ([HGNC:7399](#))

Condition: Usher syndrome ([MONDO:0019501](#))

Inheritance Mode: Autosomal recessive inheritance

UUID: 201650f0-4a5b-446d-98e4-65dbae845631

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HGVS expressions

NM_206933.2:c.5039A>G

NM_206933.2(USH2A):c.5039A>G (p.Lys1680Arg)

NC_000001.11:g.216084826T>C

CM000663.2:g.216084826T>C

NC_000001.10:g.216258168T>C

CM000663.1:g.216258168T>C

NC_000001.9:g.214324791T>C

NG_009497.1:g.343571A>G

NG_009497.2:g.343623A>G

ENST00000307340.8:c.5039A>G

ENST00000674083.1:c.5039A>G

ENST00000307340.7:c.5039A>G

ENST00000463147.1:n.283A>G

ENST00000481786.1:n.281A>G

NR_125992.1:n.266-1896T>C

NR_125993.1:n.137-1896T>C

NM_206933.3:c.5039A>G

NM_206933.4:c.5039A>G

Uncertain Significance

Met criteria codes **2**

PP4 PM3_Supporting

Not Met criteria codes **24**

BP5 BP7 BP4 BP3 BP1 BP2
PVS1 PS1 PS2 PS3 PS4
PP1 PP2 PP3 PM6 PM2
PM1 PM5 PM4 BA1 BS1
BS4 BS3 BS2

Evidence Links **0**

Expert Panel

Hearing Loss VCEP [↗](#)

Criteria Specification Information

[↗](#) **Criteria Specification:** ClinGen Hearing Loss Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for CDH23, COCH, GJB2, KCNQ4, MYO6, MYO7A, SLC26A4,TECTA and USH2A Version 2

[↗](#) PDF





[↗](#) Criteria Specification Approval History

[↗](#) Criteria Specifications for this VCEP




















Hearing Loss VCEP

The c.5039A>G (p.Lys1680Arg) variant in USH2A is a missense variant that replaces lysine with arginine at codon 1680. (Add gnomad information) The REVEL score for this variant is 0.252, which does not meet the threshold for PP3. This variant has been observed in the homozygous state in one individual with a clinical diagnosis of Usher syndrome (PMID: 36909829), meeting PM3_Supporting. The phenotype observed is highly specific for Usher syndrome, meeting PP4. In summary, this variant meets criteria to be classified as uncertain significance for autosomal recessive Usher syndrome based on the ACMG/AMP criteria applied, as specified by the ClinGen Hearing Loss VCEP: PM3_Supporting, PP4. (ClinGen Hearing Loss VCEP specifications version 2; 5/21/2025)


























Met criteria codes

PP4			The variant has been reported in one homozygous proband, who was diagnosed with Usher syndrome.
PM3_Supporting			The variant has been reported in one homozygous proband, who was diagnosed with Usher syndrome.

Not Met criteria codes

BP5			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP7			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP4			The REVEL computational prediction analysis tool produced a score of 0.252, which also meets no codes.
BP3			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP2			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PVS1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PS1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PS2			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PS3			

No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline

PS4			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PP1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PP2			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PP3			The REVEL computational prediction analysis tool produced a score of 0.252, which also meets no codes.
PM6			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM2			The MAF is 0.00057 (20/35312 alleles, 0 homozygotes) for the Latino population, which meets no codes.
PM1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM5			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM4			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BA1			The variant is present in 0.05% Latino alleles in gnomAD.
BS1			The variant is present in 0.05% Latino alleles in gnomAD.
BS4			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BS3			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BS2			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline

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