

Variant: NM_000350.3(ABCA4):c.1317G>A (p.Trp439Ter)

Version: 1.0

CA226882 [↗](#)

99043 (ClinVar) [↗](#)

Gene: ABCA4 ([HGNC:24](#))

Condition: ABCA4-related retinopathy ([MONDO:0800406](#))

Inheritance Mode: Autosomal recessive inheritance

UUID: 5ac7c81a-3537-4d63-ad82-e9d685fbb7d5

Approved on: 2026/8/25

Published on: 2026/8/25

HGVS expressions

NM_000350.3(ABCA4):c.1317G>A (p.Trp439Ter)

NM_000350.3:c.1317G>A

NC_000001.11:g.94078629C>T

CM000663.2:g.94078629C>T

NC_000001.10:g.94544185C>T

CM000663.1:g.94544185C>T

NC_000001.9:g.94316773C>T

NG_009073.1:g.47521G>A

ENST00000370225.4:c.1317G>A

ENST00000649773.1:c.1317G>A

ENST00000370225.3:c.1317G>A

NM_000350.2:c.1317G>A

Pathogenic

Met criteria codes **3**

PS4

PM2_Supporting

PVS1

Evidence Links **0**

Expert Panel

[ABCA4 VCEP](#) [↗](#)

Criteria Specification Information

[↗](#) **Criteria Specification:** ClinGen ABCA4 Expert Panel
Specifications to the ACMG/AMP Variant Interpretation
Guidelines for ABCA4 Version 1.0

[↗](#) **Criteria Specification Approval History**

[↗](#) **Criteria Specifications for this VCEP**

Evidence submitted by expert panel

ABCA4 VCEP

The NM_000350.3(ABCA4):c.1317G>A; p.Trp439Ter variant in ABCA4 is a nonsense variant predicted to cause a premature stop codon in biologically relevant exon 10 of 50 leading to nonsense mediated decay in a gene in which loss-of-function is an established disease mechanism (PVS1). The total minor allele frequency in gnomAD v4.1.1 is 0.00002601 (37/1422478 alleles), which is lower than the ClinGen ABCA4 VCEP's threshold (<0.0001) for PM2_Supporting. The prevalence of the variant in affected individuals is significantly increased compared with the prevalence in controls with an OR of 101.5 and CI of 24.08 to 923.23, which is above the ABCA4 VCEP threshold of ≥5 where the CI does not contain 1 (PS4; PMID: 35120629). In summary, this variant meets the criteria to be classified as pathogenic for

ABCA4-related retinopathy based on the ACMG/AMP criteria applied, as specified by the ClinGen ABCA4 VCEP (Specification Version 1): PVS1, PS4, PM2_Supporting.			
Met criteria codes			
PS4			The prevalence of the variant in affected individuals is significantly increased compared with the prevalence in controls. The OR is 101.5 and the CI is 24.08 to 923.23, which is above the ABCA4 VCEP threshold of ≥ 5 , where the CI does not contain 1 (PS4; PMID: 35120629).
PM2_Supporting			The total minor allele frequency in gnomAD v4.1.1 is 0.000026 (37/1422478 alleles), which is lower than the ClinGen ABCA4 VCEP's threshold for PM2_Supporting (< 0.0001), meeting this criterion (PM2_Supporting).
PVS1			This is a nonsense variant located in exon 10 out of 50, and introduces a premature stop codon between codons 1-2255 (PVS1)

Curation History



 

 

Showing 1 to 1 of 1 rows

--

The information on this website is not intended for direct diagnostic use or medical decision-making without review by a genetics professional. Individuals should not change their health behavior solely on the basis of information contained on this website. If you have questions about the information contained on this website, please see a health care professional.