

Variant: *NM_000350.3:c.2424C>G*

Version: 1.0

CA341277115 [↗](#)

2664262 (ClinVar) [↗](#)

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

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

Inheritance Mode: Autosomal recessive inheritance

UUID: 1ce32ffd-eb4b-4353-aa88-0889141ccf5b

Approved on: 2026/3/24

Published on: 2026/3/28

HGVS expressions

NM_000350.3:c.2424C>G

NC_000001.11:g.94055274G>C

CM000663.2:g.94055274G>C

NC_000001.10:g.94520830G>C

CM000663.1:g.94520830G>C

NC_000001.9:g.94293418G>C

NG_009073.1:g.70876C>G

ENST00000370225.4:c.2424C>G

ENST00000649773.1:c.2202C>G

ENST00000370225.3:c.2424C>G

ENST00000536513.5:c.-65+7900C>G

NM_000350.2:c.2424C>G

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 1.0.0*

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

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

Evidence submitted by expert panel

ABCA4 VCEP

The NM_000350.3(ABCA4):c.2424C>G; p.Tyr808Ter variant in ABC4A is a nonsense variant predicted to cause a premature stop codon in biologically relevant exon 16 of 50 leading to nonsense mediated decay in a gene in which loss-of-function is an established disease mechanism (PVS1). Minor allele frequency in gnomAD v4.1.0 is 0.00000061952 (1/1614146 alleles), which is lower than the ClinGen ABCA4 VCEP's threshold for PM2_Supporting (<0.0001). The prevalence of the variant in affected individuals is significantly increased compared with the prevalence in controls with an OR of infinity and CI of 110.57 to Infinity, 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 1.0.0: 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 infinity and the CI is 110.57 to Infinity, 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 v4.1.0 is 0.00000061952 (1/1614146 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 16 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.