

*Variant: NM\_001034853.2(RPGR):c.2901\_2903del  
(p.Glu969del)*

Version: 1.0

CA10385235 [🔗](#)

1199928 (ClinVar) [🔗](#)

**Gene:** RPGR ([HGNC:6103](#))

**Condition:** RPGR-related retinopathy ([MONDO:0100437](#))

**Inheritance Mode:** X-linked inheritance

**UUID:** 213abb16-7e96-432f-a07c-30fc63455df7

**Approved on:** 2025-05-20

**Published on:** 2025-05-21

## *HGVS expressions*

### **NM\_001034853.2:c.2901\_2903del**

NM\_001034853.2(RPGR):c.2901\_2903del (p.Glu969del)

NC\_000023.11:g.38286098\_38286100del

CM000685.2:g.38286098\_38286100del

NC\_000023.10:g.38145351\_38145353del

CM000685.1:g.38145351\_38145353del

NC\_000023.9:g.38030295\_38030297del

NG\_009553.1:g.46438\_46440del

ENST00000494707.6:c.953+1767\_953+1769del

ENST00000642170.1:n.1826+4861\_1826+4863del

ENST00000642395.2:c.1905+996\_1905+998del

ENST00000642739.1:c.1572+4861\_1572+4863del

ENST00000644238.1:c.1386+4861\_1386+4863del

ENST00000644337.1:c.1719+996\_1719+998del

ENST00000645032.1:c.2901\_2903del

ENST00000645124.1:c.\*101+996\_\*101+998del

ENST00000646020.1:c.\*594+996\_\*594+998del

ENST00000318842.11:c.1905+996\_1905+998del

ENST00000339363.7:c.2520+996\_2520+998del

ENST00000378505.6:c.2901\_2903del

ENST00000465127.1:c.172-380023\_172-380021del

ENST00000474584.5:c.\*37+4861\_\*37+4863del

ENST00000482855.5:c.1905+996\_1905+998del

ENST00000494707.5:c.139+4861\_139+4863del

NM\_000328.2:c.1905+996\_1905+998del

NM\_001034853.1:c.2901\_2903del

NM\_001367245.1:c.1902+996\_1902+998del

NM\_001367246.1:c.1719+996\_1719+998del

NM\_001367247.1:c.1572+4861\_1572+4863del

NM\_001367248.1:c.1602+4861\_1602+4863del

NM\_001367249.1:c.1569+4861\_1569+4863del

NM\_001367250.1:c.1569+4861\_1569+4863del

NM\_001367251.1:c.1386+4861\_1386+4863del

NR\_159803.1:n.2263+996\_2263+998del

NR\_159804.1:n.1648+4861\_1648+4863del

NR\_159805.1:n.1714+4861\_1714+4863del  
NR\_159806.1:n.1866+996\_1866+998del  
NR\_159807.1:n.1622+4861\_1622+4863del  
NR\_159808.1:n.1826+4861\_1826+4863del  
NM\_000328.3:c.1905+996\_1905+998del

Likely Benign

Met criteria codes **1**

BP3

Not Met criteria codes **2**

PM4 BS1

Evidence Links **0**

Expert Panel

[X-linked Inherited Retinal Disease VCEP](#)

Criteria Specification Information

[Criteria Specification:](#) *ClinGen X-linked Inherited Retinal Disease Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for RPGR Version 1.0.0*

[Criteria Specification Approval History](#)

[Criteria Specifications for this VCEP](#)

Evidence submitted by expert panel

### *X-linked Inherited Retinal Disease VCEP*

**NM\_001034853.2(RPGR):c.2901\_2903del (p.Glu968del)** is an in-frame deletion variant. This variant is a short in-frame deletion of 3 base pairs that encodes amino acid 968, and is located within a low-complexity region (PMID: 27162334) that extends approximately from amino acids 787-1043 in RPGR (BP3). This variant is present in gnomAD v4.1.0 at a frequency of 0.000009574 among hemizygous individuals, with 1 variant allele / 104,450 total alleles, which is higher than the ClinGen X-linked IRD VCEP BS1 threshold of >0.000005. However, the VCEP recommended not to apply the BS1 code based on the gnomAD quality control data indicating low coverage and sequencing quality at this site. In summary, this variant is classified as likely benign for RPGR-related retinopathy based on the ClinGen X-linked Inherited Retinal Disease Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for RPGR Version 1.0.0; BP3. (date of approval 05/16/2025).

#### Met criteria codes

BP3



This variant is a short in-frame deletion of 3 base pairs that encodes amino acid 968 within a low-complexity region (PMID: 27162334) that extends approximately from amino acids 787-1043 in RPGR (BP3).

#### Not Met criteria codes

PM4



N/A

BS1



This variant is present in gnomAD v.4.1.0 at a frequency of 0.000009574 among hemizygous individuals, with 1 variant alleles / 104450 total alleles, which is higher than the ClinGen X-linked IRD VCEP BS1 threshold of >0.000005 (BS1). Only One individual was found to carry this variant and be healthy. The specific age (>30) and clinical evaluation are unknown. Therefore, the panel decided not to use this code.

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