

Variant: NM_001034853.2(RPGR):c.1059+6G>A

Version: 1.0

CA10385560 [↗](#)

255828 (ClinVar) [↗](#)

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

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

Inheritance Mode: X-linked inheritance

UUID: 419e2509-9f07-4f06-8a67-8c919cbe6dd4

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HGVS expressions

NM_001034853.2:c.1059+6G>A
NM_001034853.2(RPGR):c.1059+6G>A
NC_000023.11:g.38301241C>T
CM000685.2:g.38301241C>T
NC_000023.10:g.38160494C>T
CM000685.1:g.38160494C>T
NC_000023.9:g.38045438C>T
NG_009553.1:g.31295G>A
ENST00000494707.6:c.263+6G>A
ENST00000642170.1:n.1313+6G>A
ENST00000642395.2:c.1059+6G>A
ENST00000642558.1:c.966+6G>A
ENST00000642739.1:c.1059+6G>A
ENST00000644238.1:c.1059+6G>A
ENST00000644337.1:c.1059+6G>A
ENST00000645032.1:c.1059+6G>A
ENST00000645124.1:c.1059+6G>A
ENST00000646020.1:c.1119+6G>A
ENST00000318842.11:c.1059+6G>A
ENST00000339363.7:c.1059+6G>A
ENST00000378505.6:c.1059+6G>A
ENST00000464437.1:c.125+6G>A
ENST00000465127.1:c.172-364880C>T
ENST00000474584.5:c.1059+6G>A
ENST00000482855.5:c.1059+6G>A
ENST00000494841.1:n.322+6G>A
NM_000328.2:c.1059+6G>A
NM_001034853.1:c.1059+6G>A
NM_001367245.1:c.1056+6G>A
NM_001367246.1:c.1059+6G>A
NM_001367247.1:c.1059+6G>A
NM_001367248.1:c.1089+6G>A
NM_001367249.1:c.1056+6G>A
NM_001367250.1:c.1056+6G>A
NM_001367251.1:c.1059+6G>A
NR_159803.1:n.1261+6G>A
NR_159804.1:n.1110+6G>A

NR_159805.1:n.1201+6G>A
NR_159806.1:n.1201+6G>A
NR_159807.1:n.1201+6G>A
NR_159808.1:n.1313+6G>A
NM_000328.3:c.1059+6G>A

Benign

Met criteria codes **2**

BA1 BP4

Not Met criteria codes **3**

PM2 PM1 BP3

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.1059+6G>A an intron 9 variant located six nucleotides after exon 9. This variant is present in gnomAD v4.1.0 at a frequency of 0.0002996 among hemizygous individuals, with 114 variant alleles / 380,467 total alleles, which is higher than the ClinGen X-linked IRD VCEP BA1 threshold of >0.00005 (BA1). The splicing impact predictor SpliceAI gives a delta score of 0.01, which is below the ClinGen X-linked IRD VCEP recommended threshold of <0.1 and does not strongly predict an impact on splicing (BP4). In summary, this variant is classified as 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; BA1 and BP4. (date of approval 05/16/2025).

Met criteria codes

BA1	 	This variant is present in gnomAD v.4.1.0 at a frequency of 0.0002996 among hemizygous individuals, with 114 variant alleles / 380,467 total alleles, which is higher than the ClinGen X-linked IRD VCEP BA1 threshold of >0.00005 (BA1).
BP4	 	The splicing impact predictor SpliceAI gives a delta score of 0.01, which is below the ClinGen X-linked IRD VCEP recommended threshold of <0.1 and does not strongly predict an impact on splicing (BP4).

Not Met criteria codes

PM2		This variant is present in gnomAD v.2.1.1 at a frequency of [0.0002996] among hemizygous individuals, with [114] variant alleles / [380467] total alleles, which is higher than the ClinGen X-linked IRD VCEP PM2_Supporting threshold of <0.000005 and fails to meet this criterion.
PM1		No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline

BP3



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

Curation History [↗](#)

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