

Variant: NM_002709.3(PPP1CB):c.201A>G (p.Gln67=)

CA1589199 [↗](#)

667025 (ClinVar) [↗](#)

Gene: PPP1CB ([HGNC:5500](#))

Condition: RASopathy ([MONDO:0021060](#))

Inheritance Mode: Autosomal dominant inheritance

UUID: 92c34e06-f193-405c-a099-e2ab6cede4d0

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HGVS expressions

NM_002709.3:c.201A>G

NM_002709.3(PPP1CB):c.201A>G (p.Gln67=)

NC_000002.12:g.28778825A>G

CM000664.2:g.28778825A>G

NC_000002.11:g.29001691A>G

CM000664.1:g.29001691A>G

NC_000002.10:g.28855195A>G

NG_052878.1:g.32078A>G

ENST00000418910.2:c.201A>G

ENST00000420282.6:c.201A>G

ENST00000427786.2:c.*161A>G

ENST00000441461.6:c.201A>G

ENST00000455580.6:c.117A>G

ENST00000703171.1:c.*248A>G

ENST00000703172.1:c.117A>G

ENST00000703173.1:c.201A>G

ENST00000703174.1:c.201A>G

ENST00000703176.1:c.168A>G

ENST00000703177.1:c.*161A>G

ENST00000395366.3:c.201A>G

ENST00000296122.10:c.201A>G

ENST00000358506.6:c.201A>G

ENST00000395366.2:c.201A>G

ENST00000420282.5:c.201A>G

ENST00000427786.1:c.*161A>G

ENST00000441461.5:c.201A>G

ENST00000455580.5:c.117A>G

NM_002709.2:c.201A>G

NM_206876.1:c.201A>G

NM_206876.2:c.201A>G

Benign

Met criteria codes **3**

BA1 BP7 BP4

Evidence Links **0**

Expert Panel

RASopathy VCEP [↗](#)

Criteria Specification Information

Evidence submitted by expert panel

RASopathy VCEP

The c.201A>G (p.Gln67=) variant in PPP1CB is a synonymous (silent) variant that is not predicted by SpliceAI to impact splicing. In addition, the computational predictor REVEL does not predict a damaging effect on PPP1CB function (BP4, BP7). The filtering allele frequency in gnomAD v2 is 60.64% in the European (non-Finnish) population, which is higher than the ClinGen RASopathy VCEP threshold (>0.0005) for BA1, and therefore meets this criterion (BA1). In summary, this variant meets the criteria to be classified as benign for autosomal dominant RASopathy based on the ACMG/AMP criteria applied, as specified by the ClinGen RASopathy VCEP: BA1, BP4, BP7. (RASopathy VCEP specifications version 1.3; 12/3/2024)

Met criteria codes

BA1			The highest population minor allele frequency in gnomAD v4 is 62.67% (3738/5964) in the Middle Eastern population, which is higher than the ClinGen RASopathy VCEP threshold (>0.0005) for BA1
BP7			The variant is not predicted by SpliceAI to impact splicing
BP4			The computational predictor REVEL does not predict a damaging effect on PPP1CB function

Curation History [↗](#)



See Report

⬆ ⬆ Preferred Variant Title

⬆ ⬆ Classification 

⬆ ⬆ Condition

⬆ ⬆ Published Date

⬆ ⬆ Version 

Criteria Specification

⬆ ⬆ Gene

No matching records found

