

Variant: *NM_000020.3(ACVRL1):c.266G>T (p.Cys89Phe)*

Version: 1.0

[CA16614039](#)

[411299 \(ClinVar\)](#)

Gene: ACVRL1 ([HGNC:94](#))

Condition: telangiectasia, hereditary hemorrhagic, type 2 ([MONDO:0010880](#))

Inheritance Mode: Autosomal dominant inheritance

UUID: e4ccd4ed-4ede-45cb-a924-70d21d029687

Approved on: 2025-12-12

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HGVS expressions

NM_000020.3:c.266G>T

NM_000020.3(ACVRL1):c.266G>T (p.Cys89Phe)

NC_000012.12:g.51913303G>T

CM000674.2:g.51913303G>T

NC_000012.11:g.52307087G>T

CM000674.1:g.52307087G>T

NC_000012.10:g.50593354G>T

NG_009549.1:g.10886G>T

ENST00000547400.6:c.308G>T

ENST00000551576.6:c.266G>T

ENST00000552678.2:c.266G>T

ENST00000388922.9:c.266G>T

ENST00000388922.8:c.266G>T

ENST00000419526.6:c.103+768G>T

ENST00000547400.5:c.308G>T

ENST00000550683.5:c.308G>T

ENST00000551576.5:c.266G>T

NM_000020.2:c.266G>T

NM_001077401.1:c.266G>T

NM_001077401.2:c.266G>T

Likely Pathogenic

Met criteria codes **4**

PP3 **PM2_Supporting**

PS4_Supporting **PM5_Strong**

Evidence Links **0**

Expert Panel

[Hereditary Hemorrhagic Telangiectasia VCEP](#)

Criteria Specification Information

[Criteria Specification:](#) *ClinGen Hereditary Hemorrhagic Telangiectasia Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for ACVRL1 Version 1.1.0*









[Criteria Specification Approval History](#)

[Criteria Specifications for this VCEP](#)

Hereditary Hemorrhagic Telangiectasia VCEP

The NM_000020.3: c.266G>T variant in ACVRL1 is a missense variant predicted to cause substitution of cysteine by phenylalanine at amino acid 89 (p.Cys89Phe). This variant is absent from gnomAD v2.1.1 (PM2_Supporting). This variant has been reported in 2 probands with a phenotype consistent with Hereditary Hemorrhagic Telangiectasia (PS4_Supporting, Internal lab contributors). The computational predictor REVEL gives a score of 0.899, which is above the threshold used for predicting a damaging impact on ACVRL1 function (PP3). Other missense variants, c.265T>A (p.Cys89Ser), c.265T>G (p.Cys89Gly), c.265T>C (p.Cys89Arg), and c.267C>G (p.Cys89Trp) in the same codon have been classified as likely pathogenic/pathogenic for Hereditary Hemorrhagic Telangiectasia by the ClinGen Hereditary Hemorrhagic Telangiectasia Variant Curation Expert Panel rules (PM5_Strong). In summary, this variant meets the criteria to be classified as a variant of uncertain significance for autosomal dominant hereditary hemorrhagic telangiectasia based on the ACMG/AMP criteria applied, as specified by the ClinGen Hereditary Hemorrhagic Telangiectasia Variant Curation Expert Panel. Approved by Expert Panel: 12/12/2025. Evidence used: PM5_Strong, PS4_supporting, PM2_Supporting, and PP3 (specification version 1.1.0; 12/12/2025).

Met criteria codes

PP3			The computational predictor REVEL gives a score of 0.899, which is above the threshold used for predicting a damaging impact on ACVRL1 function (PP3).
PM2_Supporting			This variant is absent from gnomAD v2.1.1 (PM2_Supporting).
PS4_Supporting			This variant has been reported in 2 probands with a phenotype consistent with Hereditary Hemorrhagic Telangiectasia (PS4_Supporting, Internal lab contributors).
PM5_Strong			Other missense variants, c.265T>A (p.Cys89Ser), c.265T>G (p.Cys89Gly), c.265T>C (p.Cys89Arg), and c.267C>G (p.Cys89Trp) in the same codon have been classified as likely pathogenic/pathogenic for Hereditary Hemorrhagic Telangiectasia by the ClinGen Hereditary Hemorrhagic Telangiectasia Variant Curation Expert Panel rules (PM5_Strong).

Curation History 

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