

Variant: *NM_000277.3(PAH):c.1330C>T (p.Leu444Phe)*

Version: 1.0

CA386492873 [↗](#)

551287 (ClinVar) [↗](#)

Gene: PAH ([HGNC:5053](#))

Condition: phenylketonuria ([MONDO:0009861](#))

Inheritance Mode: Autosomal recessive inheritance

UUID: 36f8536e-265a-49f1-825f-de11b9fa12b5

Approved on: 2026/1/6

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HGVS expressions

NM_000277.3(PAH):c.1330C>T (p.Leu444Phe)

NM_000277.3:c.1330C>T

NC_000012.12:g.102839204G>A

CM000674.2:g.102839204G>A

NC_000012.11:g.103232982G>A

CM000674.1:g.103232982G>A

NC_000012.10:g.101757112G>A

NG_008690.1:g.83399C>T

NG_008690.2:g.124207C>T

ENST00000553106.6:c.1330C>T

ENST00000307000.7:c.1315C>T

ENST00000551114.2:n.992C>T

ENST00000553106.5:c.1330C>T

ENST00000635528.1:n.845C>T

NM_000277.1:c.1330C>T

NM_000277.2:c.1330C>T

NM_001354304.1:c.1330C>T

NM_001354304.2:c.1330C>T

Likely Pathogenic

Met criteria codes **4**

PM3_Strong

PP3

PP4

PM2

Not Met criteria codes **1**

PM5

Evidence Links **0**

Expert Panel

Phenylketonuria VCEP [↗](#)

Criteria Specification Information

[↗](#) **Criteria Specification:** ClinGen PAH Expert Panel
Specifications to the ACMG/AMP Variant Interpretation
Guidelines Version 1

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

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

Evidence submitted by expert panel

Phenylketonuria VCEP

This c.1330C>T (p.Leu444Phe) variant in PAH was detected in multiple patients with PKU in trans with the pathogenic variants c.441+3G>C (PMID: 28982351) and c.722G>A (PMID: 26600521). This variant was absent in population databases. Multiple lines of computational evidence support a deleterious effect. In summary, this variant meets criteria to be classified as likely pathogenic for PAH. PAH-specific ACMG/AMP criteria applied: PM3_Strong, PM2, PP3, PP4.

Met criteria codes

PM3_Strong			This variant was detected in trans with the pathogenic variants c.441+3G>C and c.722G>A (PMID: 28982351, 26600521). points=2
PP3			Predicted to be damaging (SIFT), probably damaging (PolyPhen2), Disease causing (MutationTaster). REVEL=0.885
PP4			Variant was detected in 2 patients affected with PKU. Variable sites in patient genes were aligned with the corresponding sites from the respective parents. This was seen in trans with another variant listed in ClinVar. Those with BH4 cofactor deficiency were excluded PMID: 28982351, 26600521
PM2			This variant is present in European (non-Finnish) populations at a frequency of 0.00006 (Gnomad). This variant is absent from the Exac population database

Not Met criteria codes

PM5			No other variants have been documented in ClinVar at this amino acid residue.
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Curation History



 

 

Showing 1 to 1 of 1 rows

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