

Variant: *NM\_000277.2(PAH):c.912+1G>A*

Version: 1.0

CA220591 [↗](#)

92752 (ClinVar) [↗](#)

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

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

**Inheritance Mode:** Autosomal recessive inheritance

**UID:** f8b8c165-463e-4138-88c6-316879bdcf67

**Approved on:** 2018-08-10

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### *HGVS expressions*

**NM\_000277.2:c.912+1G>A**

NM\_000277.2(PAH):c.912+1G>A

NC\_000012.12:g.102851686C>T

CM000674.2:g.102851686C>T

NC\_000012.11:g.103245464C>T

CM000674.1:g.103245464C>T

NC\_000012.10:g.101769594C>T

NG\_008690.1:g.70917G>A

NG\_008690.2:g.111725G>A

ENST00000553106.6:c.912+1G>A

ENST00000307000.7:c.897+1G>A

ENST00000549247.6:n.671+1G>A

ENST00000551114.2:n.574+1G>A

ENST00000553106.5:c.912+1G>A

ENST00000635477.1:c.73+1G>A

NM\_000277.1:c.912+1G>A

NM\_001354304.1:c.912+1G>A

NM\_000277.3:c.912+1G>A

NM\_001354304.2:c.912+1G>A

**Pathogenic**

Met criteria codes **3**

PP4 PM2 PVS1

Evidence Links **1**

Expert Panel

Phenylketonuria VCEP [↗](#)

Criteria Specification Information **!**

[↗](#) Criteria Specifications for this VCEP

Evidence submitted by expert panel

#### ***Phenylketonuria VCEP***

**PAH-specific ACMG/AMP criteria applied: PM2: Extremely low frequency. ExAC MAF=0.00006.; PVS1: Canonical +1 splice site; PP4: Detected in 5 patients with classical PKU. (PMID:8659548). In summary this variant meets criteria to be classified as pathogenic for phenylketonuria in an autosomal recessive manner based on the ACMG/AMP criteria applied as specified by the PAH Expert Panel: (PM2, PVS1, PP4).**

### Met criteria codes

<b>PP4</b>	✓	Detected in 5 patients with classical PKU. <hr/> IVS8nt1g>a was detected on 5 chromosomes of patients with classical PKU. Blood phenylalanine concentrations >1,200 umol/liter, normal blood tyrosine concentrations, and large concentrations of phenylalanine metabolites in urine. <a href="#">PubMed:8659548</a> ↗
<b>PM2</b>	✓	Extremely low frequency. ExAC MAF=0.00006.
<b>PVS1</b>	✓	Canonical +1 splice site

### Curation History [↗](#)

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