

Variant: NM_000314.6(PTEN):c.510T>A (p.Ser170Arg)

CA000492 [↗](#)

7815 (ClinVar) [↗](#)

Gene: PTEN ([HGNC:5728](#))

Condition: PTEN hamartoma tumor syndrome ([MONDO:0017623](#))

Inheritance Mode: Autosomal dominant inheritance

UUID: 67ade3e6-3038-4022-903b-9caf929577ba

Approved on: 2018-04-06

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HGVS expressions

NM_000314.6(PTEN):c.510T>A (p.Ser170Arg)

NM_000314.6:c.510T>A

NC_000010.11:g.87952135T>A

CM000672.2:g.87952135T>A

NC_000010.10:g.89711892T>A

CM000672.1:g.89711892T>A

NC_000010.9:g.89701872T>A

NG_007466.2:g.93697T>A

ENST00000371953.8:c.510T>A

ENST00000371953.7:c.510T>A

NM_000314.5:c.510T>A

NM_001304717.2:c.1029T>A

NM_001304718.1:c.-82T>A

NM_000314.7:c.510T>A

NM_001304717.5:c.1029T>A

NM_001304718.2:c.-82T>A

NM_000314.8:c.510T>A

NM_000314.8(PTEN):c.510T>A (p.Ser170Arg)

Pathogenic

Met criteria codes **5**

PP2

PP1

PM2

PS3

PS4_Moderate

Evidence Links **0**

Expert Panel

PTEN VCEP [↗](#)

Criteria Specification Information **!**

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

Evidence submitted by expert panel

PTEN VCEP

PTEN c.510T>A (p.Ser170Arg) meets criteria to be classified as pathogenic for PTEN Hamartoma Tumor syndrome in an autosomal dominant manner using modified ACMG criteria (PMID 30311380). Please see a summary of the rules and criteria codes in the “PTEN ACMG Specifications Summary” document (assertion method column). PS3: Phosphatase activity <50% of wild type (PMID 17942903, PMID 10866302, PMID 9256433, PMID 21828076 PS4_M: Probands with phenotype specificity score of 2-3.5. (PMID 17526800, PMID 23335809, PMID 30528446) PM2: Absent in large sequenced populations (PMID 27535533) PP1: Co-segregation with disease in multiple affected

family members, with 3 or 4 meioses observed. (PMID 17526800, PMID 9241266) PP2: PTEN is defined by the PTEN Expert Panel as a gene that has a low rate of benign missense variation and where missense variants are a common mechanism of disease.

Met criteria codes

PP2			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PP1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM2			Absent gnomAD
PS3			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PS4_Moderate			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline

Curation History

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