

Variant: NM_000314.8:c.152ATG[1]

Version: 1.0

CA645559021 [↗](#)

640550 (ClinVar) [↗](#)

Gene: [PTEN](#)
Condition: PTEN hamartoma tumor syndrome ([MONDO:0017623](#))
Inheritance Mode: Autosomal dominant inheritance
UUID: 72ac9fd5-2f91-490d-a1de-f561657d95e4
Approved on: 2023/12/1
Published on: 2023/12/14

HGVS expressions

NM_000314.8:c.152ATG[1]
NC_000010.11:g.87894100_87894102del
CM000672.2:g.87894100_87894102del
NC_000010.10:g.89653857_89653859del
CM000672.1:g.89653857_89653859del
NC_000010.9:g.89643837_89643839del
NG_007466.2:g.35662_35664del
ENST00000700029.2:c.155_157del
ENST00000710265.1:c.155_157del
ENST00000472832.3:c.155_157del
ENST00000688158.2:n.899+13662_899+13664del
ENST00000688922.2:c.155_157del
ENST00000700021.1:c.155_157del
ENST00000700022.1:c.155_157del
ENST00000706954.1:c.155_157del
ENST00000706955.1:c.*190_*192del
ENST00000686459.1:c.155_157del
ENST00000688158.1:c.*275+13662_*275+13664del
ENST00000688308.1:c.155_157del
ENST00000688922.1:c.24_26del
ENST00000693560.1:c.674_676del
ENST00000371953.8:c.155_157del
ENST00000371953.7:c.155_157del
ENST00000462694.1:n.157_159del
ENST00000610634.1:c.53_55del
NM_000314.5:c.155_157del
NM_000314.6:c.155_157del
NM_001304717.2:c.674_676del
NM_001304718.1:c.-551_-549del
NM_000314.7:c.155_157del
NM_001304717.5:c.674_676del
NM_001304718.2:c.-551_-549del
NM_000314.8:c.155_157del

Likely Pathogenic

PS3_Moderate

PS4_Moderate

PM2_Supporting

PS2

PTEN VCEP

Criteria Specification Information

Criteria Specification: ClinGen PTEN Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for PTEN Version 3.0.0

Criteria Specification Approval History

Criteria Specifications for this VCEP

Not Met criteria codes 1

PM4

Evidence Links 0

Evidence submitted by expert panel

PTEN VCEP

PTEN c.892C>G (p.Gln298Glu) meets criteria to be classified as likely 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). PS2: De novo (both maternity and paternity confirmed) observation in a patient with the disease and no family history. (Internal laboratory contributor(s) SCV001905678.1). PS4_M: Probands with phenotype specificity score of 2-3.5. (PMID: 21194675, Internal laboratory contributor(s) SCV001905678.1). PS3_M: Massively parallel functional assay interrogating phosphatase activity demonstrating a statistically significant difference from wild type (PMID: 29706350). PM2_P: Absent in large sequenced populations (PMID: 27535533).

Met criteria codes

PS3_Moderate

Mighell et al (2018): high confidence variant, score = -3.437

PS4_Moderate

Identified in 4 individuals: Father (43 yo) and son (16.9 yo), both with macrocephaly, lipomas and speckled penis' [Tan et al 2011, PMID 21194675]; A 2 yo index patient with macrocephaly, DD and rectal polyps [University Hospital Tübingen - ClinVar: SCV001905678.1]; and a 19 yo M with macrocephaly (64.2 cm), lipoma, penile macules, >6 cutaneous signs (acral keratoses, palmar & plantar keratoses, facial papules), mucosal neuroma, tongue lesion [Lachlan et al 2007, PMID 17526800].

PM2_Supporting

Absent in gnomAD

PS2

Confirmed de novo in a 2 yo patient with macrocephaly, DD and rectal polyps (ClinVar: SCV001905678.1).

Not Met criteria codes

PM4

No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline

Curation History

▼

▼

Showing 1 to 1 of 1 rows

--

The information on this website is not intended for direct diagnostic use or medical decision-making without review by a genetics professional. Individuals should not change their health behavior solely on the basis of information contained on this website. If you have questions about the information contained on this website, please see a health care professional.