

Variant: *NM_006767.4(LZTR1):c.848G>A (p.Arg283Gln)*

Version: 1.1

CA410781238 [↗](#)

561716 (ClinVar) [↗](#)

Gene: LZTR1 ([HGNC:8216](#))

Condition: RASopathy ([MONDO:0021060](#))

Inheritance Mode: Autosomal dominant inheritance

UUID: c8222db2-1fa0-4817-b2bb-713739454635

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HGVS expressions

NM_006767.4:c.848G>A

NM_006767.4(LZTR1):c.848G>A (p.Arg283Gln)

NC_000022.11:g.20991684G>A

CM000684.2:g.20991684G>A

NC_000022.10:g.21345973G>A

CM000684.1:g.21345973G>A

NC_000022.9:g.19675973G>A

NG_034193.1:g.14416G>A

ENST00000700578.1:c.848G>A

ENST00000495142.6:n.193G>A

ENST00000642151.1:c.679G>A

ENST00000643578.1:n.870G>A

ENST00000646124.2:c.848G>A

ENST00000646506.1:n.427G>A

ENST00000215739.12:c.848G>A

ENST00000414985.5:c.*414G>A

ENST00000479606.5:n.994G>A

ENST00000497716.5:n.675G>A

NM_006767.3:c.848G>A

Likely Pathogenic

Met criteria codes 3

PS2

PS4_Moderate

PM2_Supporting

Not Met criteria codes 4

BA1

BS1

BP4

PP3

Evidence Links 0

Expert Panel

[RASopathy VCEP](#) [↗](#)

Criteria Specification Information

[↗](#) **Criteria Specification:** *ClinGen RASopathy Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for LZTR1 Version 1.3.0*

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

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

Evidence submitted by expert panel

RASopathy VCEP

The NM_006767.4:c.848G>A variant in LZTR1 is a missense variant predicted to cause substitution of arginine by glutamine at amino acid 283 (p.Arg283Gln). This variant is absent from gnomAD v2.1.1 (PM2_Supporting). The computational predictor REVEL gives a score of 0.609, which is neither above nor below the thresholds predicting a damaging or benign impact on LZTR1 function. This variant has been reported in 5 probands with RASopathy (PS4_Moderate; PMID: 30368668, SCV000808536.4, GeneDx). This variant has been identified as a de novo occurrence with confirmed parental relationships in 2 individuals with RASopathy (PS2; PMID: 30368668, SCV000808536.4, GeneDx). In summary, this variant meets the criteria to be classified as likely pathogenic for autosomal dominant RASopathy based on the ACMG/AMP criteria applied, as specified by the ClinGen RASopathy VCEP: PS2, PS4_Moderate, PM2_Supporting. (ClinGen RASopathy VCEP specifications version 1.3; 12/3/2024)

Met criteria codes

PS2			This variant has been identified as a de novo occurrence with confirmed parental relationships in 2 individuals with RASopathy (PS2; PMID: 30368668, SCV000808536.4, GeneDx).
PS4_Moderate			This variant has been reported in 5 probands with RASopathy (PS4_Moderate; PMID: 30368668, SCV000808536.4, GeneDx).
PM2_Supporting			This variant is absent from gnomAD v2.1.1 (PM2_Supporting).

Not Met criteria codes

BA1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BS1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP4			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PP3			The computational predictor REVEL gives a score of 0.609, which is neither above nor below the thresholds predicting a damaging or benign impact on LZTR1 function.

Curation History 

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