

Variant: *NM_000132.3:c.1244C>A*

Version: 1.0

CA414915809 [↗](#)

Gene: F8 ([HGNC:2157](#))

Condition: hemophilia A ([MONDO:0010602](#))

Inheritance Mode: X-linked inheritance

UID: 1eeea77a-9f96-4436-83f8-8780f845c2d2

Approved on: 2024-05-09

Published on: 2024-07-11

HGVS expressions

NM_000132.3:c.1244C>A

NC_000023.11:g.154966453G>T

CM000685.2:g.154966453G>T

NC_000023.10:g.154194728G>T

CM000685.1:g.154194728G>T

NC_000023.9:g.153847922G>T

NG_011403.1:g.61271C>A

NG_011403.2:g.61271C>A

ENST00000360256.9:c.1244C>A

ENST00000647125.1:c.*1120C>A

ENST00000360256.8:c.1244C>A

ENST00000483822.2:n.64C>A

NM_000132.4:c.1244C>A

Likely Pathogenic

Met criteria codes **5**

PS4_Moderate PM2_Supporting

PP4_Moderate PP3 PM5

Evidence Links **0**

Expert Panel

Coagulation Factor Deficiency VCEP [↗](#)

Criteria Specification Information

[↗](#) **Criteria Specification:** *ClinGen Coagulation Factor Deficiency Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for F8 Version 1.0.0*

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











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

Evidence submitted by expert panel

Coagulation Factor Deficiency VCEP

The c.1244C>A (p.Ala415Asp) variant is absent from males in population databases (gnomAD v2.1.1/gnomAD v3/gnomAD v4). The missense variant has a REVEL score of 0.922 (PP3, >0.6). This variant has been reported in three probands with mild and moderate hemophilia A, meeting phenotypic criteria for F8 (PP4, PS4_Moderate, PMID: 16786531). Ala415Val is a pathogenic variant at the same residue (PM5). In summary, this variant meets criteria to be classified as likely pathogenic. ACMG/AMP criteria applied, as specified by the Coagulation Factor Deficiency Variant Curation Expert Panel for F8/F9: PM5, PS4_Moderate, PP4_Moderate, PP3, PM2_Supporting.

Met criteria codes

PS4_Moderate			2 individuals with moderate hemophilia A reported in PMID: 29296726 and 16786531 meet F8 phenotype criteria to apply PS4_Moderate.
PM2_Supporting			The c.1244C>A (p.Ala415Asp) variant is absent from males in population databases (gnomAD v2.1.1/gnomAD v3/gnomAD v4).
PP4_Moderate			1 individual with moderate hemophilia A reported in PMID: 29296726 (deletion/duplication analyses confirmed) meets the F8 phenotype criteria.
PP3			The c.1244C>A (p.Ala415Asp) missense variant has a REVEL score of 0.922 (>0.6). No splicing impact is predicted by spliceAI.
PM5			Ala415Thr and Ala415Val are variants at the same residue. Ala415Thr is a VUS while Ala415Val is a pathogenic variant. PM5 met based on Ala415Val being a pathogenic variant.

Curation History [↗](#)



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