

Variant: NM_001754.5(RUNX1):c.599C>A (p.Pro200His)

Version: 1.0

CA410207960 [↗](#)

1004688 (ClinVar) [↗](#)

Gene: RUNX1 (HGNC:861)

Condition: hereditary thrombocytopenia and hematologic cancer predisposition syndrome (MONDO:0011071)

Inheritance Mode: Autosomal dominant inheritance

UUID: 149407af-db7c-48f3-a958-05ee667b179e

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HGVS expressions

NM_001754.5:c.599C>A

NM_001754.5(RUNX1):c.599C>A (p.Pro200His)

NC_000021.9:g.34859488G>T

CM000683.2:g.34859488G>T

NC_000021.8:g.36231785G>T

CM000683.1:g.36231785G>T

NC_000021.7:g.35153655G>T

NG_011402.2:g.1130224C>A

ENST00000675419.1:c.599C>A

ENST00000300305.7:c.599C>A

ENST00000344691.8:c.518C>A

ENST00000358356.9:c.518C>A

ENST00000399237.6:c.563C>A

ENST00000399240.5:c.518C>A

ENST00000437180.5:c.599C>A

ENST00000467577.1:n.91C>A

ENST00000482318.5:c.*189C>A

NM_001001890.2:c.518C>A

NM_001122607.1:c.518C>A

NM_001754.4:c.599C>A

NM_001001890.3:c.518C>A

NM_001122607.2:c.518C>A

Uncertain Significance

Met criteria codes **3**

PM2_Supporting PP3

PM1_Supporting

Not Met criteria codes **23**

BA1 PP1 PP2 PP4 PM6

PM3 PM5 PM4 BS1 BS4

BS3 PVS1 BS2 BP5 BP7

BP4 BP3 BP1 BP2 PS1 PS2

PS3 PS4

Evidence Links **0**

Expert Panel

Myeloid Malignancy VCEP [↗](#)

Criteria Specification Information

[↗](#) **Criteria Specification:** ClinGen Myeloid Malignancy Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines Version 2

[↗](#) PDF







[↗](#) Criteria Specification Approval History

[↗](#) Criteria Specifications for this VCEP


















Myeloid Malignancy VCEP

NM_001754.5(RUNX1):c.599C>A (p.Pro200His) is a missense variant which is completely absent from all population databases with at least 20x coverage for RUNX1 (PM2_supporting). It has a REVEL score of 0.947 (REVEL score \geq 0.88), meeting PP3. This missense variant is located within the Runt Homology Domain (AA 89-204), but does not occur in an established hotspot residue (PM1_supporting). In summary, the clinical significance of this variant is uncertain. ACMG/AMP criteria applied, as specified by the Myeloid Malignancy Variant Curation Expert Panel for RUNX1: PM1_supporting, PM2_supporting, and PP3.

Met criteria codes

PM2_Supporting			Variant is absent from control population databases. PM2_supporting
PP3			REVEL score= 0.947 (REVELscore \geq 0.88)
PM1_Supporting			Meets PM1_supporting. Variant affecting one of the other amino acid residues 89-204 within the RHD.

Not Met criteria codes

BA1			Variant is absent from control population databases. PM2_supporting met
PP1			No case study found
PP2			This rule is not applicable for MM-VCEP
PP4			This rule is not applicable for MM-VCEP
PM6			No case study found
PM3			This rule is not applicable for MM-VCEP
PM5			A Missense change at amino acid residue 200 has not been determined to be pathogenic before
PM4			This is a missense variant
BS1			Variant is absent from control population databases. PM2_supporting met
BS4			No case study found

BS3			No study found
PVS1			This is a missense variant
BS2			This rule is not applicable for MM-VCEP
BP5			This rule is not applicable for MM-VCEP
BP7			This is a missense variant
BP4			This rule is not applicable for MM-VCEP
BP3			This is a missense variant
BP1			This rule is not applicable for MM-VCEP
BP2			No case study found
PS1			This amino acid change at residue 200 has not been determined to be pathogenic before
PS2			No case study found
PS3			No study found
PS4			No case study found

Curation History [↗](#)

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