

Variant: NM_001754.4(RUNX1):c.*4188G>C

CA10644605 [↗](#)

339794 (ClinVar) [↗](#)

Gene: RUNX1 ([HGNC:861](#))

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

Inheritance Mode: Autosomal dominant inheritance

UUID: 912add43-9404-4257-a2a6-c545861ad7ef

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HGVS expressions

NM_001754.4:c.*4188G>C

NM_001754.4(RUNX1):c.*4188G>C

NC_000021.9:g.34787947C>G

CM000683.2:g.34787947C>G

NC_000021.8:g.36160244C>G

CM000683.1:g.36160244C>G

NC_000021.7:g.35082114C>G

NG_011402.2:g.1201765G>C

ENST00000675419.1:c.*4188G>C

ENST00000300305.7:c.*4188G>C

ENST00000344691.8:c.*4188G>C

ENST00000437180.5:c.*4188G>C

NM_001001890.2:c.*4188G>C

NM_001001890.3:c.*4188G>C

NM_001754.5:c.*4188G>C

NM_001754.5(RUNX1):c.*4188G>C

Likely Benign

The Expert Panel has overridden the computationally generated classification - "Uncertain Significance - Insufficient Evidence"

Met criteria codes 1

BS1

Not Met criteria codes 25

PP4 PP1 PP3 PP2 PM1
PM4 PM3 PM5 PM6 PM2
PS2 PS4 PS3 PS1 BA1
PVS1 BP7 BP5 BP3 BP2
BP4 BP1 BS4 BS3 BS2

Evidence Links 0

Expert Panel

Myeloid Malignancy VCEP [↗](#)

Criteria Specification Information

[↗](#) Criteria Specifications for this VCEP

Evidence submitted by expert panel

Myeloid Malignancy VCEP

This 3' UTR c.*4188G>C variant is located at a non-conserved nucleotide per an evolutionary conservation prediction algorithm (PhyloP = -0.665764 in GRCh38). The variant is present in gnomAD at an allele frequency between 0.015% and 0.15% in a general continental population (European, non-Finnish, subpopulation: 0.03528% in v3) with >5 variant alleles and a minimum of 2000 total alleles (BS1) and has not been described in the literature. In summary, this variant meets criteria to be classified as likely benign. ACMG/AMP criteria applied, as specified by the ClinGen Myeloid Malignancy Variant Curation Expert Panel for RUNX1: BS1.

Met criteria codes			
BS1			Variant is present in >=5 alleles in the European (non-Finnish) population (has required minimum of 2000 alleles) with an MAF of 0.03528% (v3.1.1), which is within the BS1 thresholds (0.015%-0.15%). - gnomAD v2.1.1: ALL: 0.009554% (3/31402) - NFE: 0.01297% (2/15424) - OTH: 0.09208% (1/1086) - gnomAD v3.1.1: ALL: 0.02168% (33/152196) - NFE: 0.03528% (24/38024) - AMR: 0.02616% (4/15290) - ASJ: 0.05760% (2/3472) - OTH: 0.09579% (2/2088)
Not Met criteria codes			
PP4			Not applicable
PP1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PP3			No donor/acceptor gains or losses predicted with SpliceAI Δ score >= 0.38.
PP2			Not applicable
PM1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM4			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM3			Not applicable
PM5			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM6			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM2			Variant is present in >=5 alleles in the European (non-Finnish) population (has required minimum of 2000 alleles) with an MAF of 0.03528% (v3.1.1), which is within the BS1 thresholds (0.015%-0.15%). - gnomAD v2.1.1: ALL: 0.009554% (3/31402) - NFE: 0.01297% (2/15424) - OTH: 0.09208% (1/1086) - gnomAD v3.1.1: ALL: 0.02168% (33/152196) - NFE: 0.03528% (24/38024) - AMR: 0.02616% (4/15290) - ASJ: 0.05760% (2/3472) - OTH: 0.09579% (2/2088)

PS2		✖	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PS4		✖	No literature found in HGMD, Google+Google Scholar searches, or COSMIC.
PS3		✖	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PS1		✖	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BA1		✖	Variant is present in >=5 alleles in the European (non-Finnish) population (has required minimum of 2000 alleles) with an MAF of 0.03528% (v3.1.1), which is within the BS1 thresholds (0.015%-0.15%). - gnomAD v2.1.1: ALL: 0.009554% (3/31402) - NFE: 0.01297% (2/15424) - OTH: 0.09208% (1/1086) - gnomAD v3.1.1: ALL: 0.02168% (33/152196) - NFE: 0.03528% (24/38024) - AMR: 0.02616% (4/15290) - ASJ: 0.05760% (2/3472) - OTH: 0.09579% (2/2088)
PVS1		✖	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP7		✖	3'UTR variant that is located at a non-conserved nucleotide (PhyloP = -0.665764 in GRCh38), and the variant is the reference nucleotide in one primate and/or 3 mammals.
BP5		✖	Not applicable
BP3		✖	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP2		✖	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP4		✖	No donor/acceptor gains or losses predicted (SpliceAI Δ score $\leq$ 0.2), but does not apply for UTR variants.
BP1		✖	Not applicable
BS4		✖	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BS3		✖	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BS2		✖	Not applicable



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Preferred Variant Title

◆

Classification 

◆

Condition

◆

Published Date

◆

Version 

◆

Criteria Specification

◆

Gene

No matching records found

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