

*Variant: NM\_002880.3(RAF1):c.1113T>C (p.Asp371=)*

Version: 1.1

CA235339 [↗](#)

180718 (ClinVar) [↗](#)

**Gene:** RAF1 (HGNC:5894)

**Condition:** RASopathy (MONDO:0021060)

**Inheritance Mode:** Autosomal dominant inheritance

**UUID:** ca1f922a-c651-4ca4-8afe-a28dde261256

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### *HGVS expressions*

#### **NM\_002880.3:c.1113T>C**

NM\_002880.3(RAF1):c.1113T>C (p.Asp371=)

NC\_000003.12:g.12591788A>G

CM000665.2:g.12591788A>G

NC\_000003.11:g.12633287A>G

CM000665.1:g.12633287A>G

NC\_000003.10:g.12608287A>G

NG\_007467.1:g.77392T>C

ENST00000423275.6:c.\*778T>C

ENST00000432427.3:c.430T>C

ENST00000465826.6:n.704T>C

ENST00000475353.2:n.1035T>C

ENST00000491290.2:n.1486-13T>C

ENST00000494557.2:n.924T>C

ENST00000684903.1:c.\*790T>C

ENST00000685348.1:c.\*790T>C

ENST00000685437.1:c.1014T>C

ENST00000685653.1:c.1113T>C

ENST00000685738.1:c.\*77T>C

ENST00000686409.1:n.2164T>C

ENST00000686455.1:n.1476T>C

ENST00000686762.1:c.1113T>C

ENST00000687257.1:n.1349T>C

ENST00000687326.1:c.\*47T>C

ENST00000687486.1:c.305T>C

ENST00000687505.1:n.1231T>C

ENST00000687923.1:c.1002T>C

ENST00000687940.1:n.1490T>C

ENST00000688269.1:n.1709T>C

ENST00000688326.1:c.546T>C

ENST00000688444.1:n.1439T>C

ENST00000688543.1:c.1014T>C

ENST00000688625.1:c.\*691T>C

ENST00000688803.1:n.1344T>C

ENST00000688914.1:n.99T>C

ENST00000689097.1:c.\*790T>C

ENST00000689389.1:c.1113T>C

ENST00000689418.1:c.\*790T>C  
ENST00000689481.1:c.\*790T>C  
ENST00000689540.1:n.1263T>C  
ENST00000689876.1:c.1113T>C  
ENST00000689914.1:c.\*47T>C  
ENST00000690397.1:c.1002T>C  
ENST00000690460.1:c.1101T>C  
ENST00000690585.1:c.5T>C  
ENST00000690625.1:n.1416T>C  
ENST00000691396.1:c.\*965T>C  
ENST00000691724.1:c.\*70T>C  
ENST00000691779.1:c.\*691T>C  
ENST00000691888.1:c.5T>C  
ENST00000691899.1:c.1113T>C  
ENST00000692069.1:n.1679T>C  
ENST00000692093.1:c.1014T>C  
ENST00000692311.1:n.1937T>C  
ENST00000692558.1:n.1478T>C  
ENST00000692773.1:c.\*850T>C  
ENST00000692830.1:c.\*858T>C  
ENST00000693069.1:c.\*47T>C  
ENST00000693312.1:c.888T>C  
ENST00000693664.1:c.1113T>C  
ENST00000693705.1:c.\*790T>C  
ENST00000251849.9:c.1113T>C  
ENST00000442415.7:c.1173T>C  
ENST00000251849.8:c.1113T>C  
ENST00000423275.5:c.\*790T>C  
ENST00000432427.2:c.750T>C  
ENST00000442415.6:c.1173T>C  
ENST00000460610.1:n.70T>C  
ENST00000465826.5:n.470T>C  
ENST00000475353.1:n.281T>C  
ENST00000494557.1:n.129T>C  
NM\_001354689.1:c.1173T>C  
NM\_001354690.1:c.1113T>C  
NM\_001354691.1:c.870T>C  
NM\_001354692.1:c.870T>C  
NM\_001354693.1:c.1014T>C  
NM\_001354694.1:c.930T>C  
NM\_001354695.1:c.771T>C  
NR\_148940.1:n.1641T>C  
NR\_148941.1:n.1587T>C  
NR\_148942.1:n.1526T>C  
NM\_001354689.3:c.1173T>C  
NM\_001354690.2:c.1113T>C  
NM\_001354691.2:c.870T>C  
NM\_001354692.2:c.870T>C  
NM\_001354693.2:c.1014T>C  
NM\_001354694.2:c.930T>C  
NM\_001354695.2:c.771T>C  
NR\_148940.2:n.1557T>C

NR\_148941.2:n.1503T>C  
NR\_148942.2:n.1442T>C  
NM\_001354690.3:c.1113T>C  
NM\_001354691.3:c.870T>C  
NM\_001354692.3:c.870T>C  
NM\_001354693.3:c.1014T>C  
NM\_001354694.3:c.930T>C  
NM\_001354695.3:c.771T>C  
NM\_002880.4:c.1113T>C  
NR\_148940.3:n.1557T>C  
NR\_148941.3:n.1503T>C  
NR\_148942.3:n.1442T>C

Likely Benign

Met criteria codes **2**

BP4 BP7

Not Met criteria codes **1**

BS2

Evidence Links **0**

Expert Panel

[RASopathy VCEP](#)

Criteria Specification Information **!**

[Criteria Specifications for this VCEP](#)

Evidence submitted by expert panel

### ***RASopathy VCEP***

The c.1113T>C (p.Asp371=) is present in 7/1113684 European alleles (MAF 2.88e-05, 95% CI) gnomAD v2.1.1. Sixteen apparently unaffected parental samples involved in whole exome testing were observed with this variant supporting that this variant is likely benign; however, this evidence does not meet current scoring criteria for BS2 at this time (BS2 not met; SCV000515669.4). This variant is a synonymous (silent) variant at a nucleotide that is not highly conserved and is not predicted to impact splicing (BP7). Computational prediction tools and conservation analysis suggest that the p.Asp371= variant does not impact the protein (BP4). In summary, the clinical significance of the p.Asp371= variant is likely benign. RASopathy-specific ACMG/AMP criteria applied (PMID:29493581): BP7, BP4.

#### **Met criteria codes**

<b>BP4</b>	✓	No predicted splicing impact
<b>BP7</b>	✓	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline

#### **Not Met criteria codes**

<b>BS2</b>	✗	Not met, 3 well-phenotyped individuals needed to apply BS2. Identified by whole exome in 16 unaffected parents from 16 different trios (SCV000515669.4) observed a female in her 20's with a history of autism, type 2 diabetes, and dilated LV heart failure (SCV001010386.1).
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## Curation History [↗](#)

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