

Variant: NM_000038.6(APC):c.531+5_531+8del

Version: 1.0

CA658760464 [↗](#)

537529 (ClinVar) [↗](#)

Gene: APC (HGNC:324)

Condition: familial adenomatous polyposis 1 (MONDO:0021056)

Inheritance Mode: Autosomal dominant inheritance

UUID: e349d6a4-8d6f-460f-8090-52728b9e030b

Approved on: 2025-05-15

Published on: 2025-05-19

HGVS expressions

NM_000038.6:c.531+5_531+8del

NM_000038.6(APC):c.531+5_531+8del

NC_000005.10:g.112775742_112775745del

CM000667.2:g.112775742_112775745del

NC_000005.9:g.112111439_112111442del

CM000667.1:g.112111439_112111442del

NC_000005.8:g.112139338_112139341del

NG_008481.4:g.88222_88225del

ENST00000502371.3:c.531+5_531+8del

ENST00000504915.3:c.531+5_531+8del

ENST00000505084.2:n.587+5_587+8del

ENST00000505350.2:c.*537+5_*537+8del

ENST00000507379.6:c.561+5_561+8del

ENST00000509732.6:c.531+5_531+8del

ENST00000512211.7:c.531+5_531+8del

ENST00000257430.9:c.531+5_531+8del

ENST00000257430.8:c.531+5_531+8del

ENST00000507379.5:c.561+5_561+8del

ENST00000508376.6:c.531+5_531+8del

ENST00000508624.5:c.531+5_531+8del

ENST00000512211.6:c.531+5_531+8del

NM_000038.5:c.531+5_531+8del

NM_001127510.2:c.531+5_531+8del

NM_001127511.2:c.561+5_561+8del

NM_001354895.1:c.531+5_531+8del

NM_001354896.1:c.531+5_531+8del

NM_001354897.1:c.561+5_561+8del

NM_001354898.1:c.456+5_456+8del

NM_001354899.1:c.531+5_531+8del

NM_001354900.1:c.354+5_354+8del

NM_001354901.1:c.354+5_354+8del

NM_001354902.1:c.561+5_561+8del

NM_001354903.1:c.531+5_531+8del

NM_001354904.1:c.456+5_456+8del

NM_001354905.1:c.354+5_354+8del

NM_001354906.1:c.-505+5_-505+8del

NM_001127510.3:c.531+5_531+8del

NM_001127511.3:c.561+5_561+8del
NM_001354895.2:c.531+5_531+8del
NM_001354896.2:c.531+5_531+8del
NM_001354897.2:c.561+5_561+8del
NM_001354898.2:c.456+5_456+8del
NM_001354899.2:c.531+5_531+8del
NM_001354900.2:c.354+5_354+8del
NM_001354901.2:c.354+5_354+8del
NM_001354902.2:c.561+5_561+8del
NM_001354903.2:c.531+5_531+8del
NM_001354904.2:c.456+5_456+8del
NM_001354905.2:c.354+5_354+8del
NM_001354906.2:c.-505+5_-505+8del

Likely Pathogenic

Met criteria codes **4**

PS3_Moderate PM2_Supporting
PS4_Moderate PP3

Evidence Links **0**

Expert Panel

[InSiGHT Hereditary Colorectal Cancer/Polyposis VCEP](#)

Criteria Specification Information

[Criteria Specification:](#) *ClinGen InSiGHT Hereditary Colorectal Cancer/Polyposis Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for APC Version 2.1.0*

[Criteria Specification Approval History](#)

[Criteria Specifications for this VCEP](#)

Evidence submitted by expert panel

InSiGHT Hereditary Colorectal Cancer/Polyposis VCEP

The NM_000038.6(APC):c.531+5_531+8del variant is located in intron 5 of the APC gene. RT-PCR demonstrated that this variant impacts splicing by skipping of exon 5 resulting in a premature stop codon (PS3_Moderate, PMID: 15459959). This variant is absent from gnomAD v.2.1.1 (PM2_Supporting). This variant has been reported in 5 probands meeting phenotypic criteria, resulting in a total phenotype score of 3.5 (PS4_Moderate; internal data Labcorp Genetics [formerly Invitae] and Institute of Human Genetics, Bonn, Germany, PMID: 15459959 and 20223039). The results from two in silico splicing predictors (SpliceAI and VarSeak) indicate that this variant may affect splicing by disrupting the donor splice site of intron 5 of APC (PP3). In summary, this variant meets the criteria to be classified as Likely Pathogenic for autosomal-dominant inherited FAP based on the ACMG/AMP criteria applied, as specified by the ClinGen InSiGHT Hereditary Colorectal Cancer/Polyposis VCEP: PS3_Moderate, PM2_Supporting, PP3, and PS4_Moderate (VCEP specifications version v2.1.0; date of approval 11/24/2023).

Met criteria codes

PS3_Moderate



RT-PCR demonstrated that this variant impacts splicing by skipping of exon 5 resulting in a premature stop codon (PS3_Moderate, PMID: 15459959).

PM2_Supporting



This variant is absent from gnomAD v.2.1.1 (PM2_Supporting).

PS4_Moderate



This variant has been reported in 5 probands meeting phenotypic criteria, resulting in a total phenotype score of 3.5 (PS4_Moderate; internal data Labcorp Genetics [formerly Invitae] and Institute of Human Genetics, Bonn, Germany, PMID: 15459959 and 20223039).

PP3



The results from two in silico splicing predictors (SpliceAI and VarSeak) indicate that this variant may affect splicing by disrupting the donor splice site of intron 5 of APC (PP3).

Curation History [↗](#)

Showing 1 to 1 of 1 rows

--

The information on this website is not intended for direct diagnostic use or medical decision-making without review by a genetics professional. Individuals should not change their health behavior solely on the basis of information contained on this website. If you have questions about the information contained on this website, please see a health care professional.