

Variant: NM_000527.5(LDLR):c.2479G>A (p.Val827Ile)

Version: 1.0

CA023677 [↗](#)

36462 (ClinVar) [↗](#)

Gene: LDLR ([HGNC:3949](#))

Condition: hypercholesterolemia, familial ([MONDO:0007750](#))

Inheritance Mode: Semidominant inheritance

UUID: 7013887c-0f2d-4f01-93b1-32e2c36dc390

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HGVS expressions

NM_000527.5:c.2479G>A

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NC_000019.10:g.11129602G>A

CM000681.2:g.11129602G>A

NC_000019.9:g.11240278G>A

CM000681.1:g.11240278G>A

NC_000019.8:g.11101278G>A

NG_009060.1:g.45222G>A

ENST00000252444.10:c.2737G>A

ENST00000559340.2:c.*548G>A

ENST00000560467.2:c.2359G>A

ENST00000558518.6:c.2479G>A

ENST00000252444.9:c.2733G>A

ENST00000455727.6:c.1975G>A

ENST00000535915.5:c.2356G>A

ENST00000545707.5:c.1945G>A

ENST00000557933.5:c.2541G>A

ENST00000558013.5:c.2479G>A

ENST00000558518.5:c.2479G>A

ENST00000560628.1:n.108+1948G>A

NM_000527.4:c.2479G>A

NM_001195798.1:c.2479G>A

NM_001195799.1:c.2356G>A

NM_001195800.1:c.1975G>A

NM_001195803.1:c.1945G>A

NM_001195798.2:c.2479G>A

NM_001195799.2:c.2356G>A

NM_001195800.2:c.1975G>A

NM_001195803.2:c.1945G>A

Uncertain Significance

Met criteria codes **2**

PP1 PP3

Not Met criteria codes **24**

Expert Panel

Familial Hypercholesterolemia VCEP [↗](#)

Criteria Specification Information **!**



Evidence Links 0

Evidence submitted by expert panel

Familial Hypercholesterolemia VCEP

NM_000527.5(LDLR):c.2479G>A (p.Val827Ile) variant is classified as variant of Uncertain significance for Familial Hypercholesterolemia by applying evidence codes (PP1 and PP3) as defined by the ClinGen Familial Hypercholesterolemia Expert Panel LDLR-specific variant curation guidelines (<https://doi.org/10.1101/2021.03.17.21252755>). The supporting evidence is as follows: PP1 - Variant segregates with FH phenotype in 3 informative meioses from Molecular Genetics Laboratory (Centre for Cardiovascular Surgery and Transplantation). PP3 - REVEL: 0,771. Score is above 0,75.

Met criteria codes

PP1	✓	Variant segregates with FH phenotype in 3 informative meioses from Molecular Genetics Laboratory (Centre for Cardiovascular Surgery and Transplantation).
PP3	✓	REVEL: 0,771. Score is above 0,75.

Not Met criteria codes

PVS1	✗	Missense variant. Not applicable.
PS1	✗	No variant described that leads to the same amino acid change.
PS2	✗	No de novo cases were identified.
PS3	✗	No functional assays performed/found - not applicable.
PS4	✗	PM2 is not met. Not applicable.
PP2	✗	Not applicable.
PP4	✗	PM2 is not met. Not applicable.
BA1	✗	FAF = 0.0007719 (0.08%) in Latino exomes (gnomAD v2.1.1). FAF is not above 0.5%.
PM6	✗	No de novo cases were identified.

PM2	✖	PopMax MAF = 0.01649 (1.65%) in Ashkenazi Jewish exomes (gnomAD v2.1.1). MAF is not below 0.02%.
PM1	✖	Missense at codon 827 - it is not exon 4 or any of the 60 Cys residues listed. Not applicable.
PM3	✖	PM2 is not met. Not applicable.
BS1	✖	FAF = 0.0007719 (0.08%) in Latino exomes (gnomAD v2.1.1). FAF is not above 0.2%.
BS4	✖	insufficient information
BS3	✖	No functional assays performed/found - not applicable.
PM5	✖	No other missense variants classified as Pathogenic by these guidelines. Two missense variants described in the same codon (accessed 19 August 2020): (1)NM_000527.4(LDLR):c.2479G>T (p.Val827Phe) (ClinVar ID 375840) - VUS by these guidelines. (2)NM_000527.5(LDLR):c.2480T>A (p.Val827Asp) (ClinVar ID 963080) - VUS by these guidelines.
PM4	✖	Missense variant. Not applicable.
BS2	✖	Two unaffected heterozygous carriers from Molecular Genetics Laboratory (Centre for Cardiovascular Surgery and Transplantation). At least 3 htz unaffected carriers are needed for adding this point. BS2 not met.
BP5	✖	Not applicable.
BP7	✖	Missense variant. Not applicable.
BP4	✖	REVEL: 0,771. Score is not below 0,15.
BP3	✖	Not applicable.
BP1	✖	Not applicable.
BP2	✖	Not applicable.

Curation History ↗

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