

Variant: *NM_004360.5(CDH1):c.808T>G (p.Ser270Ala)*

Version: 2.0

CA294235 [↗](#)

142011 (ClinVar) [↗](#)

Gene: CDH1 ([HGNC:999](#))

Condition: CDH1-related diffuse gastric and lobular breast cancer ([MONDO:0100488](#))

Inheritance Mode: Autosomal dominant inheritance

UUID: f736f74f-a045-4573-aa21-41c5dfa9dd12

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HGVS expressions

NM_004360.5:c.808T>G

NM_004360.5(CDH1):c.808T>G (p.Ser270Ala)

NC_000016.10:g.68810317T>G

CM000678.2:g.68810317T>G

NC_000016.9:g.68844220T>G

CM000678.1:g.68844220T>G

NC_000016.8:g.67401721T>G

NG_008021.1:g.78026T>G

ENST00000261769.10:c.808T>G

ENST00000261769.9:c.808T>G

ENST00000422392.6:c.808T>G

ENST00000561751.1:c.455-1367T>G

ENST00000562836.5:n.879T>G

ENST00000566510.5:c.652T>G

ENST00000566612.5:c.808T>G

ENST00000611625.4:c.808T>G

ENST00000612417.4:c.808T>G

ENST00000621016.4:c.808T>G

NM_004360.3:c.808T>G

NM_001317184.1:c.808T>G

NM_001317185.1:c.-808T>G

NM_001317186.1:c.-1012T>G

NM_004360.4:c.808T>G

NM_001317184.2:c.808T>G

NM_001317185.2:c.-808T>G

NM_001317186.2:c.-1012T>G

Benign

Met criteria codes **2**

BS2 BA1

Not Met criteria codes **24**

PP1 PP2 PP3 PP4 PM1
PM3 PM5 PM4 PM6 PM2
PVS1 BS1 BS4 BS3 BP5

Expert Panel

Criteria Specification Information

[↗](#) **Criteria Specification:** ClinGen CDH1 Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines Version 3.1

[↗](#) **Criteria Specification Approval History**

Evidence submitted by expert panel

CDH1 VCEP

The c.808T>G (p.Ser270Ala) variant has a maximum subpopulation frequency of 0.002269 (0.2269%, 57 of 25124 alleles) in the European (Finnish) subpopulation of the gnomAD v2.1.1 cohort (BA1). This variant has also has been observed in more than 10 individuals without a diagnosis of diffuse gastric cancer, signet ring tumor or lobular breast cancer and whose family histories do not suggest HDGC (BS2; SCV000185687.6, SCV000254832.8). In summary, this variant meets criteria to be classified as benign based the ACMG/AMP criteria applied, as specified by the CDH1 Variant Curation Expert Panel (Variant Interpretation Guidelines Version 3.1): BA1, BS2.

Met criteria codes

BS2	i	✓	PMID: 11705864 - Detected in 5 of 923 controls. SCV000185687.6 (Ambry) - 23 families that do not meet HDGC clinical criteria. SCV000254832.8 (Invitae) - 43 families without CDH1 phenotypes described.
BA1	i	✓	gnomAD 2.1.1 = 57 of 25124 alleles (0.2269%) in in Finnish populations (>0.2%). gnomAD 3.1 = 26 of 10598 alleles (0.2453%) in Finnish populations (>0.2%).

Not Met criteria codes

PP1	i	✗	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PP2		✗	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PP3	i	✗	VarSEAK - No splicing effect. SpliceAI - Donor Gain: score 0.03 at 12 bp.
PP4		✗	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM1		✗	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM3		✗	No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM5		✗	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
PM6			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PM2			gnomAD 2.1.1 = 57 of 25124 alleles (0.2269%) in Finnish populations >0.2% and 9 of 7222 alleles (0.1246%) in others >0.1% and 59 of 129148 alleles (0.04568%) in Non-Finnish Europeans. gnomAD 3.1 = 26 of 10598 alleles (0.2453%) in Finnish populations and 25 of 68004 (0.03676%) in Non-Finnish Europeans.
PVS1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BS1			gnomAD 2.1.1 = 57 of 25124 alleles (0.2269%) in Finnish populations >0.2% and 9 of 7222 alleles (0.1246%) in others >0.1% and 59 of 129148 alleles (0.04568%) in Non-Finnish Europeans. gnomAD 3.1 = 26 of 10598 alleles (0.2453%) in Finnish populations and 25 of 68004 (0.03676%) in Non-Finnish Europeans.
BS4			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BS3			Exhibits strong adhesion, although a bit lower than WT, but cannot be activated by stimuli. PubMed:27582386 
BP5			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP7			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP4			VarSEAK - No splicing effect. SpliceAI - Donor Gain: score 0.03 at 12 bp.
BP3			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
BP1			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
PS1			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline
PS2			No code specific comments provided, please refer to the summary above or general recommendations provided in the guideline

PS3			PMID: 27582386 - Exhibits strong adhesion, although a bit lower than WT, but cannot be activated by stimuli.
			Exhibits strong adhesion, although a bit lower than WT, but cannot be activated by stimuli. PubMed:27582386 
PS4			PMID: 11705864 - 2 diffuse gastric cancer cases, but no ages provided. PMID: 26898890 - 1 breast/ovarian cancer, no pathology provided. PMID: 30333958 - 2 breast/ovarian cancer, no pathology provided. Ambry - none of the 23 families provided meets criteria (additional data for 70 probands could be made available).

Curation History 		
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