


Variant: *NM_001130987.2(DYSF):c.895_896del (p.Phe299fs)*

Version: 1.0

[CA533253809](#) 

[639814 \(ClinVar\)](#) 

Gene: [DYSF \(HGNC:8291\)](#)

Condition: [autosomal recessive limb-girdle muscular dystrophy \(MONDO:0015152\)](#)

Inheritance Mode: [Autosomal recessive inheritance](#)

UUID: [f05d0b1b-36b6-454e-a404-5ce25ea211ad](#)

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HGVS expressions

NM_001130987.2:c.895_896del

NM_001130987.2(DYSF):c.895_896del (p.Phe299fs)

NC_000002.12:g.71516186_71516187del

CM000664.2:g.71516186_71516187del

NC_000002.11:g.71743316_71743317del

CM000664.1:g.71743316_71743317del

NC_000002.10:g.71596824_71596825del

NG_008694.1:g.67564_67565del

ENST00000258104.8:c.799_800del

ENST00000410020.8:c.895_896del

ENST00000258104.7:c.799_800del

ENST00000394120.6:c.802_803del

ENST00000409366.5:c.802_803del

ENST00000409582.7:c.892_893del

ENST00000409651.5:c.895_896del

ENST00000409744.5:c.802_803del

ENST00000409762.5:c.892_893del

ENST00000410020.7:c.895_896del

ENST00000410041.1:c.895_896del

ENST00000413539.6:c.892_893del

ENST00000429174.6:c.799_800del

NM_001130455.1:c.802_803del

NM_001130976.1:c.799_800del

NM_001130977.1:c.799_800del

NM_001130978.1:c.799_800del

NM_001130979.1:c.892_893del

NM_001130980.1:c.892_893del

NM_001130981.1:c.892_893del

NM_001130982.1:c.895_896del

NM_001130983.1:c.802_803del

NM_001130984.1:c.802_803del

NM_001130985.1:c.895_896del

NM_001130986.1:c.802_803del

NM_001130987.1:c.895_896del

NM_003494.3:c.799_800del

NM_001130455.2:c.802_803del

NM_001130976.2:c.799_800del

NM_001130977.2:c.799_800del
NM_001130978.2:c.799_800del
NM_001130979.2:c.892_893del
NM_001130980.2:c.892_893del
NM_001130981.2:c.892_893del
NM_001130982.2:c.895_896del
NM_001130983.2:c.802_803del
NM_001130984.2:c.802_803del
NM_001130985.2:c.895_896del
NM_001130986.2:c.802_803del
NM_003494.4:c.799_800del

Pathogenic

Met criteria codes **4**

PVS1 PP4_Strong PM2_Supporting
PM3_Supporting

Evidence Links **0**

Expert Panel

Limb Girdle Muscular Dystrophy VCEP [↗](#)

Criteria Specification Information

- [↗](#) **Criteria Specification:** ClinGen Limb Girdle Muscular Dystrophy Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for DYSF Version 1.0.0
- [↗](#) **Criteria Specification Approval History**
- [↗](#) **Criteria Specifications for this VCEP**

Evidence submitted by expert panel

Limb Girdle Muscular Dystrophy VCEP

The NM_003494.4: c.799_800del p.(Phe267LeufsTer5) variant in DYSF, which is also known as NM_001130987.2: c.895_896del p.(Phe299LeufsTer5), is a frameshift variant predicted to cause a premature stop codon in biologically relevant exon 8/55, leading to nonsense mediated decay in a gene in which loss of function is an established disease mechanism (PVS1). This variant has been reported in at least seven patients with suspected LGMD or dysferlinopathy (PMID: 18853459, 25591676, 27647186, 30107846), including in a homozygous state in at least one individual with no known familial consanguinity (0.5 pts, PMID: 27647186; PM3_Supporting). At least one patient with this variant and a second presumed diagnostic DYSF variant had a clinical diagnosis of LGMD and absent dysferlin protein expression, which is highly specific for DYSF-related LGMD (PMID: 18853459; PP4_Strong). The highest minor allele frequency for this variant is 0.00002519 in the East Asian population in gnomAD v4.1.0 (1/39700 exome chromosomes), which is lower than the ClinGen LGMD VCEP threshold (0.0001) for PM2_Supporting, and therefore meets this criterion (PM2_Supporting). In summary, this variant meets the criteria to be classified as Pathogenic for autosomal recessive limb girdle muscular dystrophy based on the ACMG/AMP criteria applied, as specified by the ClinGen LGMD VCEP (LGMD VCEP specifications version 1.0.0; 05/28/2025): PVS1, PM3_Supporting, PP4_Strong, PM2_Supporting.

Met criteria codes

PVS1



The NM_003494.4: c.799_800del p.(Phe267LeufsTer5) variant in DYSF, which is also known as NM_001130987.2: c.895_896del p.(Phe299LeufsTer5), is a frameshift variant predicted to cause a premature stop codon in biologically relevant exon 8/55, leading to nonsense mediated decay in a gene in which loss of function is an established disease mechanism (PVS1).

PP4_Strong



At least one patient with this variant and a second presumed diagnostic DYSF variant had a clinical diagnosis of LGMD and absent dysferlin protein expression in skeletal muscle, which is highly specific for DYSF-related LGMD (PMID: 18853459; PP4_Strong).

PM2_Supporting  

The highest minor allele frequency for this variant is 0.00002519 in the East Asian population in gnomAD v4.1.0 (1/39700 exome chromosomes), which is lower than the ClinGen LGMD VCEP threshold (0.0001) for PM2_Supporting, and therefore meets this criterion (PM2_Supporting).




PM3_Supporting  

This variant has been reported in at least seven patients with suspected LGMD or dysferlinopathy (PMID: 18853459, 25591676, 27647186, 30107846), including in a homozygous state in at least one individual with no known familial consanguinity (0.5 pts, PMID: 27647186; PM3_supporting). Five individuals have a second variant that has not yet been curated by the LGMD VCEP. In addition, one homozygous individual has another heterozygous variant. Therefore, only one homozygous individual has been included for PM3 evidence in the summary.

Curation History



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See Report	Preferred Variant Title	Classification	Condition	Published Date	Version	Criteria Specification	Gene
View	NM_001130987.2(DYSF):c.895_896del ...	Pathogenic	Autosomal Recessive Limb-Girdle Muscular Dystrophy 	2025-06-06	1.0	ClinGen Limb Girdle Muscular Dystrophy Expert Panel Specifications to the ACMG/AMP Variant Interpretation Guidelines for DYSF Version 1.0.0 	DYSF 

Showing 1 to 1 of 1 rows

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