

## Product datasheet for RC226442

### Dysferlin (DYSF) (NM\_001130986) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Dysferlin (DYSF) (NM_001130986) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	DYSF
Synonyms:	FER1L1; LGMD2B; LGMDR2; MMD1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RC226442 representing NM_001130986 Red=Cloning site Blue=ORF Green=Tags(s)

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GCAGTCCCAGAGAGTTTCACAGGCTTCCCAGACCCCTACACAGAGCTCAACACAGGCAAGGGGAAGGTGT  
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**Protein Sequence:** >RC226442 representing NM\_001130986  
 Red=Cloning site Green=Tags(s)

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 APLERKDPSEDKEDIESNLLRPTGVALRGAHFCLKV FRAEDLPQMDDAVMDNVKQIFGFESNKKNLVDPF  
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 ARVVFQIWDNDKFSFDDFLGSLQLDLNRMPKPAKTAKKCSLDQLDDAFHPEW FVSLFEQKTVKGWVPCVA  
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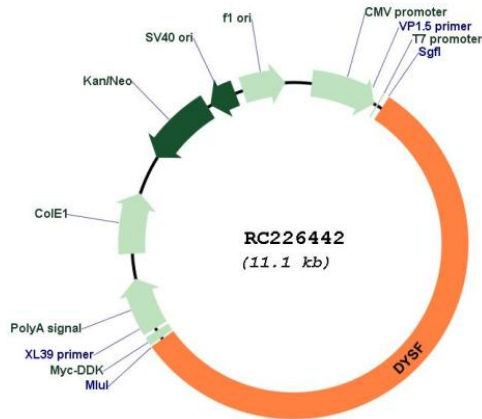
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001130986

ORF Size: 6201 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

**RefSeq:** [NM\\_001130986.2](#)

**RefSeq ORF:** 6204 bp

**Locus ID:** 8291

**UniProt ID:** [O75923](#)

**Cytogenetics:** 2p13.2

**Protein Families:** Transmembrane

**MW:** 235.8 kDa

**Gene Summary:** The protein encoded by this gene belongs to the ferlin family and is a skeletal muscle protein found associated with the sarcolemma. It is involved in muscle contraction and contains C2 domains that play a role in calcium-mediated membrane fusion events, suggesting that it may be involved in membrane regeneration and repair. In addition, the protein encoded by this gene binds caveolin-3, a skeletal muscle membrane protein which is important in the formation of caveolae. Specific mutations in this gene have been shown to cause autosomal recessive limb girdle muscular dystrophy type 2B (LGMD2B) as well as Miyoshi myopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2008]