

Product datasheet for **SC326432**

Dysferlin (DYSF) (NM_001130983) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Dysferlin (DYSF) (NM_001130983) Human Untagged Clone
Tag:	Tag Free
Symbol:	DYSF
Synonyms:	FER1L1; LGMD2B; LGMDR2; MMD1
Vector:	<u>pCMV6 series</u>
Fully Sequenced ORF:	>NCBI ORF sequence for NM_001130983, the custom clone sequence may differ by one or more nucleotides

```

ATGCTGTGCTGCCTGCTGGTGAGGGCCAGCAACCTCCCCAGTGCGAAGAAGGACCGCGC
AGCGACCCTGTCGAAGCCTGACTTTCGAGGGGTGAAGAAGAGAACCAAAGTCATCAAG
AACAGCGTGAACCCTGTATGGAATGAGGGATTTGAATGGGACCTCAAGGCATCCCCCTG
GACCAGGGCTCTGAGCTTCATGTGGTGGTCAAAGACCATGAGACGATGGGGAGGAACAGG
TTCCTGGGGGAAGCCAAGGTCCCACTCCGAGAGGTCTCGCCACCCTAGTCTGTCCGCC
AGCTTCAATGCCCCCTGCTGGACACCAAGAAGCAGCCCACAGGGGCTCGCTGGTCTCTG
CAGGTGTCTACACACCCTGCCTGGAGCTGTGCCCTGTTCGCGCCCTACTCCTCTG
GAGCCCTCCCCGACTCTGCCTGACTGGATGTAGTGGCAGACACAGGAGGAGAGGAAGAC
ACAGAGGACCAGGGACTCACTGGAGATGAGGCGGAGCCATTCTGGATCAAAGCGGAGGC
CCGGGGGCTCCCACCACCCCAAGGAAACTACCTTACGTCCTCCGCCCCACTACCCCGGG
ATCAAAAGAAAGCGAAGTGCGCCTACATCTAGAAAGCTGTGTGACAGAAAACCGCAGGAT
TTCCAGATCAGGGTCCAGGTGATCGAGGGGCGCCAGCTGCCGGGGGTGAACATCAAGCCT
GTGGTCAAGGTTACCGCTGCAGGGCAGACCAAGCGGACCGGATCCACAAGGGAACAGC
CCACTCTTCAATGAGACTCTTTTCTTCAACTTGTGTTGACTCTCCTGGGGAGCTGTTTGT
GAGCCCATCTTTATCACGGTGGTAGACTCTCGTTCTCTCAGGACAGATGCTCTCCTCGGG
GAGTTCGGATGGACGTGGGCACCATTTACAGAGAGCCCCGGCACGCCTATCTCAGGAAG
TGGCTGTGCTCTCAGACCCTGATGACTTCTCTGCTGGGGCCAGAGGCTACCTGAAAACA
AGCCTTTGTGTGCTGGGGCTGGGGACGAAGCGCCTCTGGAGAGAAAAGACCCCTCTGAA
GACAAGGAGGACATTGAAAGCAACCTGCTCCGGCCACAGGCGTAGCCCTGCGAGGAGCC
CACTTCTGCTGAAGGTCTTCCGGGCCGAGGACTTGCCGCAGATGGACGATGCCGTGATG
GACAACGTGAAACAGATCTTTGGCTTCGAGAGTAACAAGAAGAACTTGGTGGACCCCTTT
GTGGAGGTGAGCTTTGCGGGGAAAATGCTGTGCAGCAAGATCTTGAGAGAAGACGGCCAAC
CCTCAGTGAACAGAACATCACACTGCCTGCCATGTTTCCCTCCATGTGCGAAAAAATG
AGGATTCGTATCATAGACTGGGACCGCCTGACTACAATGACATCGTGGCTACCACCTAC
CTGAGTATGTCGAAAATCTCTGCCCTGGAGGAGAAAATAGAAGAGGAGCCTGCAGGTGCT
GTCAAGCCTTCGAAAGCCTCAGACTTGATGACTACCTGGGCTTCTCCCCACTTTTGGG
CCCTGCTACATCAACCTCTATGGCAGTCCCAGAGAGTTACAGGCTTCCCAGACCCTAC
ACAGAGCTCAACACAGGCAAGGGGGAAGGTGTGGCTTATCGTGGCCGGCTTCTGCTCTCC
CTGGAGACCAAGCTGGTGGAGCACAGTGAACAGAAGGTGGAGGACCTTCTGCGGATGAC

```



[View online »](#)

ATCCTCCGGGTGGAGAAGTACCTTAGGAGGCGCAAGTACTCCCTGTTTGCGGCCTTCTAC
 TCAGCCACCATGTGCAGGATGTGGATGATGCCATCCAGTTTGAGGTGAGCATCGGGAAC
 TACGGGAACAAGTTGACATGACCTGCCTGCCGTGGCCTCCACCACTCAGTACAGCCGT
 GCAGTCTTTGACGGGTGCCACTACTACTACCTACCCTGGGGTAACGTGAAACCTGTGGTG
 GTGCTGTATCTACTGGGAGGACATCAGCCATAGAATCGAGACTCAGAACCACTGCTT
 GGGATTGCTGACCGGTGGAAGCTGGCCTGGAGCAGGTCCACCTGGCCCTGAAGGCGCAG
 TGCTCCAGGAGACGTGGACTCGCTGGTGGCTCAGCTGACGGATGAGCTCATCGCAGC
 TGACGCCAGCCTCTGGGTGACATCCATGAGACACCCTCTGCCACCACCTGGACCAGTAC
 CTGTACCAGCTGCGCACCCATCACCTGAGCCAAATCACTGAGGCTGCCCTGGCCCTGAAG
 CTCGGCCACAGTGAAGTCCCTGCAGCTCTGGAGCAGGCGGAGGACTGGCTCCTGCGTCTG
 CGTGCCCTGGCAGAGGAGCCCCAGAACAGCCTGCCGGACATCGTCATCTGGATGTGCAG
 GGAGACAAGCGTGTGGCATAACCAGCGGGTGCCCGCCACCAAGTCTTCTCCCGCGG
 GGTGCCAACTACTGTGGCAAGAATTGTGGGAAGCTACAGACAATCTTTCTGAAATATCCG
 ATGGAGAAGGTGCTGGCCTGGCCTGGATGCCAGTGCAGATACGGGTCAAGCTGTGGTTTGGG
 CTCTCAGTGGATGAGAAGGAGTTCAACCAGTTTGTGAGGGGAAGCTGTCTGTCTTTGCT
 GAAACCTATGAGAACGAGACTAAGTTGGCCCTTGTGGGAACGGGGCACACCGGCCCTC
 ACCTACCCCAAGTTTTCTGACGTACGGGCAAGATCAAGCTACCCAAGGACAGCTTCCGC
 CCCTCGGCCGGCTGGACCTGGGCTGGAGATTGGTTCGTGTGTCCGGAGAAGACTCTGCTC
 CATGACATGGACGCCGTACCTGAGCTTCGTGGAAGAGGTGTTTGAAGACAGACCCGG
 CTTCCCGGAGGCCAGTGGATCTACATGAGTGACAACACTACCCGATGTGAACGGGGAGAAG
 GTGCTTCCCAAGGATGACATTGAGTGCCCACTGGGCTGGAAGTGGGAAGATGAGGAATGG
 TCCACAGACCTCAACCGGGCTGTCGATGAGCAAGGCTGGGAGTATAGCATCACCATCCCC
 CCGGAGCGGAAGCAGCACTGGGTCCCTGCTGAGAAGATGTACTACACACCCGACGG
 CGGCGCTGGGTGCGCCTGCGCAGGAGGGATCTCAGCCAAATGGAAGCACTGAAAAGGCAC
 AGGCAGGCGGAGGCGGAGGGCGAGGGCTGGGAGTACGCCTCTTTTTGGCTGGAAGTTC
 CACCTCGAGTACCGCAAGACAGATGCCTTCCGCCGCCCGCTGGCGCCCTCGCATGGAG
 CCACTGGAGAAGACGGGGCTGCAGCTGTGTTGCCCTTGAGGGGGCCCTGGCGGCGTG
 ATGGATGACAAGAGTGAAGATTCATGTCCGTCTCCACCTTGAGCTTCGGTGTGAACAGA
 CCCACGATTTCTGCATATTCGACTATGGGAACCGCTACCATCTACGCTGCTACATGTAC
 CAGGCCCGGACCTGGCTGCGATGGACAAGGACTTTTTCTGATCCCTATGCCATCGTC
 TCCTTCTGCACCAGAGCCAGAAGACGGTGGTGGTGAAGAACCCTTAACCCACCTGG
 GACCAGACGCTCATCTTCTACGAGATCGAGATCTTTGGCGAGCCGCCACAGTTGCTGAG
 CAACCGCCAGCATTGTGGTGGAGCTGTACGACCATGACACTTATGGTGCAGACGAGTTT
 ATGGGTGCTGCATCTGTCAACCGAGTCTGGAACGGATGCCACGGCTGGCCTGGTTCCTCA
 CTGACGAGGGGACGCCAGCCGTGGGGGAGCTGTGGCCTTTTTGAGCTCATCCAGAGA
 GAGAAGCCGGCCATCCACCATATTCCTGGTTTTGAGGTGCAGGAGACATCAAGGATCCTG
 GATGAGTCTGAGGACACAGACCTGCCCTACCCACCACCCAGAGGGAGGCCAACATCTAC
 ATGGTTCTCAGAACATCAAGCCAGCGCTCCAGCGTACCGCCATCGAGATCCTGGCATGG
 GGCTGCGGAACATGAAGAGTTACCAGCTGGCCAACATCTCTCCCCAGCCTCGTGGTA
 GAGTGTGGGGCCAGACGGTGCAGTCTGTGTCATCAGGAACCTCCGGAAGAACCCCAAC
 TTTGACATCTGCACCCTTTCATGGAAGTGTGCTGCCAGGGAGGAGCTCTACTGCCCC
 CCCATCACCGTCAAGGTATCGATAACCGCAGTTTGGCCGCCGGCTGTGGTGGGCCAG
 TGTACCATCCGCTCCCTGGAGAGCTTCTGTGTGACCCCTACTCGGCGGAGAGTCCATCC
 CCACAGGGTGGCCAGACGATGTGAGCCTACTCAGTCTGGGGAAGACGTGCTCATCGAC
 ATTGATGACAAGGAGCCCTCATCCCCATCCAGCTTGCAGACGGTCTGTGAGCTTGGCC
 CCCACTAACACGGCTTCTCCTCCATCCAGTCTCATGAGGAAGAGTTCATCGATTGGTGG
 AGCAAATCTTTGCCTCCATAGGGGAGAGGGAAAAGTGGCGCTCTACCTGGAGAAGGAT
 TTTGACACCCTGAAGGTCTATGACACACAGCTGGAGAATGTGGAGCCTTTGAGGCCTG
 TCTGACTTTTGTAAACCTTCAAGCTGTACCGGGCAAGACGCAGGAGGAGACAGAAGAT
 CCATCTGTGATTGGTGAATTTAAGGGCCTTTCAAAATTTATCCCTCCCAGAAGACCCA
 GCCATCCCATGCCCCAAGACAGTTCACCAGCTGGCCGCCAGGGACCCAGGAGTGC
 TTGGTCCGTATCTACATTGTCCGAGCATTGGCCTGCAGCCCAAGGACCCCAATGGAAAG

TGTGATCCTTACATCAAGATCTCCATAGGGAAGAAATCAGTGAGTGACCAGGATAACTAC
 ATCCCCTGCACGCTGGAGCCCGTATTTGGAAAGATGTTTCGAGCTGACCTGCACTCTGCCT
 CTGGAGAAGGACCTAAAGATCACTCTCTATGACTATGACCTCCTCTCCAAGGACGAAAAG
 ATCGGTGAGACGGTCGTGACCTGGAGAACAGGCTGCTGTCCAAGTTTGGGGCTCGCTGT
 GGACTCCCACAGACCTACTGTGTCTCTGGACCGAACCAAGTGGCGGGACCAGCTCCGCCCC
 TCCCAGTCTCTCCACCTCTTCTGCCAGCAGCATAGAGTCAAGGCACCTGTGTACCGGACA
 GACCGTGAATGTTTCAGGATAAAGAATATTCCATTGAAGAGATAGAGGCTGGCAGGATC
 CCAAACCCACACCTGGGCCAGTGGAGGAGCGTCTGGCTCTGCATGTGCTTCAGCAGCAG
 GGCTGTGCCGAGCAGTGGAGTACACGGCCCTCTACAGCCCTGCAGCCAGACATC
 GAGCAGGGGAAGCTGCAGATGTGGTTCGACCTATTTCCGAAGGCCCTGGGGCGGCTGGA
 CCTCCCTTCAACATCACCCACGGAGAGCCAGAAGTTTTCTGCGTTGTATTATCTGG
 AATACCAGAGATGTGATCCTGGATGACCTGAGCCTCACGGGGGAGAAGATGAGCGACATT
 TATGTGAAAGGTTGGATGATTGGCTTTGAAGAACAAGCAAAAGACAGACGTGCATTAT
 CGTTCCCTGGGAGGTGAAGGCAACTTCACTGGAGTTTCAATTTCCCTTCGACTACCTG
 CCAGCTGAGCAAGTCTGTACCATTGCCAAGAAGGATGCCTTCTGGAGGCTGGACAAGACT
 GAGAGCAAAATCCCAGCAGAGTGGTGTCCAGATCTGGGACAATGACAAGTTCTCCTTT
 GATGATTTTCTGGGCTCCCTGCAGCTCGATCTCAACCGCATGCCCAAGCCAGCCAAGACA
 GCCAAGAAGTGCTCCTTGGACCAGCTGGATGATGCTTTCCACCCAGAATGGTTTGTGTC
 CTTTTTGAAGCAGAAAACAGTGAAGGGCTGGTGGCCCTGTGTAGCAGAAGAGGGTGAGAAG
 AAAATACTGGCGGGCAAGCTGGAATGACCTTGGAGATTTAGCAGAGAGTGAGCATGAG
 GAGCGGCTGTGGCCAGGGCCGGATGAGCCCAACATGAACCTAAGCTTGAGGACCCA
 AGGCGCCCGACACCTCCTTCTGTGGTTTACCTCCCCATACAAGACCATGAAGTTTCATC
 CTGTGGCGGCTTCCGGTGGCCATCATCCTTTCATCATCCTTTCATCCTGCTGCTG
 TTCTGGCCATCTCATCTACGCCTTCCGAACTATGCTGCCATGAAGCTGGTGAAGCCC
 TTCAGC

- Restriction Sites:** Please inquire
- ACCN:** NM_001130983
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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_001130983.1](#), [NP_001124455.1](#)
- RefSeq Size:** 6721 bp

RefSeq ORF: 6309 bp

Locus ID: 8291

UniProt ID: [O75923](#)

Cytogenetics: 2p13.2

Protein Families: Transmembrane

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]
Transcript Variant: This variant (6) has multiple differences in the coding region but maintains the reading frame, compared to variant 1. This variant encodes isoform 6 which is shorter than isoform 1.