

Recombinant Full Length Human DYSF Protein, C-Flag-tagged

Cat. No. DYSF-518HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human DYSF Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	241.2 kDa
AA Sequence	MLCCLLVRASNLPSAKKDRRSDPVASLTFRGVKKRTKVIKNSVNPVWNEGFEDLK GIPLDQGSELHVVV KDHETMGRNRFLGEAKVPLREVLATPSLSASFNAPLLDTHKKQ PTGASLVLQVSYTLPGLGAVPLFPPTPL EPSPTLPDLVDVAGGGQSRAETWSLLSD STMDTRYSGKKWPAPTDGTGGEEDTEDQGLTGDEAEPFLDQSG GPGAPTTPRKLP

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SRPPPHYPGIKRKRSAPTSRKLLSDKPQDFQIRVQVIEGRQLPGVNIKPVVKVTAAG
Q TKRTRIHKGNSPLFNETLFFNLFDSPGELFDEPIFITVDSRSLRTDALLGEFRMDV
GTIYREPRHAYLR KWLLSDPDDFSAGARGYLKTSLCVLGPGDEAPLERKDPSEDK
EDIESNLLRPTGVALRGAHFCLKVFRA EDLPQMDDAVMDNVKQIFGFESNKKNLVD
PFVEVSFAGKMLCSKILEKTANPQWNQNITLPAMFPSMCEK MRIRIIDWDRDLTHNDI
VATTYLSMSKISAPGGEIEVDDYLGFLPTFGPCYINLYGSPREFTGFDPDYTEL NTGK
GEGVAYRGRLLLSLETKLVEHSEQKVEDLPADDILRVEKYLRRRKYSLFAAFYSATM
LQDVDDAIQ FEVSIGNYGNKFDMTCLPLASTTQYSRAVFDGCHYYYPWGNVVKPVV
VLSSYWEDISHRIETQNQLLGIA DRLEAGLEQVHLALKAQCSTEDVDSLVAQLTDELI
AGCSQPLGDIHETPSATHLDQYLYQLRTHHLSQIT EAALALKLGHSELPAALEQAED
WLLRLRALAEEPQNSLPDIVIWMMLQGDKRVAAYQRPVPAHQVLFSSRRGAN YCGKNCG
KLQTIFLKYPMEKVPGARMPVQIRVKLWFGLSVDEKEFNQFAEGKLSVFAETYENET
KLALVG NWGTTGLTYPKFSDVTGKIKLPKDSFRPSAGWTWAGDWFVCPEKTLHLD
MDAGHLSFVEEVFENQTRLPG GQWIYMSDNYTDVNGEKVLPKDDIECPLGWKWE
DEEWSTDNLRAVDEQGWESITIPPERKPKHWVPAEK MYYTHRRRRRWVRLRRRD
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TGPAAVFALEGALGGVMDDKSEDSMSVSTLSFGVNRPTISCIFDYGNRYHLRCYMY
QARDLAAMDKDSF SDPYAIVSFLHQSQKTVVVKNTLNPTWDQTLIFYEIEIFGEPATV
AEQPPSIVVELYDHDYGADEFMGR CICQPSLERMPRLAWFPLTRGSQPSGELLAS
FELIQREKPAIHHIPGFEVQETSRILDESED TDLPYPPP QREANIYMVPQNIKPALQRT
AIEILAWGLRNMKSYQLANISSPSLVVECGGQTVQSCVIRNLRKNPNFDI CTLFMEV
MLPREELYCPPITVKVIDNRQFGRRPVVGQCTIRSLESFLCDPYSAESPSPQGGPDD
VSLLSP GEDVLIDIDDKEPLIPIQLADGLSSLAPTNTASPPSSPHEEEFIDWWSKFFAS
IGEREKCGSYLEKDFDT LKVYDTQLENVEAFEGLSDFCNTFKLYRGKTQEETEDPS
VIGEFKGLFKIYPLPEDPAIPMPPRQFHQLA AQGPQECLVRIYIVRAFGQLPKDPNGK
CDPYIKISIGKKSVDQDNYPCTLEPVFGKMFELTCTLPLEK DLKITLYDYDLLSKDE
KIGETVVDLENRLLSKFGARCGLPQTYCVSGPNQWRDQLRPSQLLHLFCQQHRV K
APVYRTDRVMFQDKEYSIEEIEAGRIPNPHLGPVEERLALHVLQQGLVPEHVESRP
LYSPLQPDIEQG KLQMWVDLFPKALGRPGPPFNITPRRARRFFLRCCIWNTRDVILD
DLSLTGEKMSDIYVKGWMIGFEEHK QKTDVHYRSLGGEGNFNWRFFIFPFDYLPAEQ

VCTIAKKDAFWRLDKTESKIPARVVFQIWDNDKFSFDDF LGSLQLDLNRMPKPAKTA
 KKCSLDQLDDAFHPEWVSVLFEQKTVKGWWPCVAEEGEKKILAGKLEMTLEI VAES
 EHEERPAGQGRDEPNMNPVKLEDPRRPDTSFLWFTSPYKTMKFILWRRFRWAILFIIL
 FILLFLA IFIYAFPNYAAMKLVKPFSTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Transmembrane
Full Length	Full L.

GENE INFORMATION

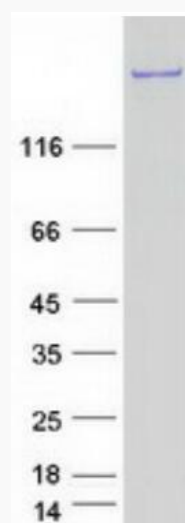
Gene Name	DYSF dysferlin [Homo sapiens (human)]
Official Symbol	DYSF
Synonyms	MMD1; FER1L1; LGMD2B; LGMDR2
Gene ID	8291

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mRNA Refseq	NM_001130987.2
Protein Refseq	NP_001124459.1
MIM	603009
UniProt ID	O75923



Coomassie blue staining of purified DYSF protein.