

Product datasheet for **RC227183**

Myotilin (MYOT) (NM_001135940) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myotilin (MYOT) (NM_001135940) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myotilin
Synonyms:	LGMD1; LGMD1A; MFM3; TTID; TTOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC227183 representing NM_001135940
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTTAACTACGAACGTCCAAAACACTTCATCCAGTCCCAAACCCATGTGGCTCCAGATTGCAGCCTC
 CTGGACCAGAAAACCTCCAGCTTCTCTAGCCAGACCAAACAGTCTTCCATTATCATCCAGCCCGCCAGTG
 TACAGAGCAAAGATTTTCTGCCTCCTCAACACTGAGCTCTCACATCACCATGTCCTCTGCTTTCCCT
 GCTTCTCCCAGCAGCATGCTGGCTCCAACCCAGGCCAAAGGGTTACAACCACCTATAACCAGTCCCAG
 CCAGCTTCTCAGCTCCATATTACCATCACAGCCTGATTACAATAGCAGTAAAAATCCCTCCGCTATGGA
 TTCCAACATCAACAGTCTCAGCTGGCCAACCTATAAATGCAAAGCCATCCCAAATGCAAATGCTAAG
 CCCATACCAAGAACTCCTGATCATGAAATAACAAGGATCAAAGAAGCTTTGATTCAAGATTTGGAAAGAA
 AGCTGAAATGCAAGGACACCTTCTTCATAATGGAAATCAACGTCTAACATATGAAGAGAAGATGGCTCG
 CAGATTGCTAGGACCACAGAATGCAGCTGCTGTGTTTCAAGCTCAGGATGACAGTGGTGCACAAGACTCG
 CAGCAACACAACCTCAGAACATGCGCGACTGCAAGTTCCTACATCAACAAGTAAGAAGTAGATCAACCTCAA
 GGGGAGATGTGAATGATCAGGATGCAATCCAGGAGAAATTTTACCACCACGTTTCATTCAAGTGCCAGA
 GAACATGTCGATTGATGAAGGAAGATTCTGCAGAAATGGACTTCAAAGTGAGTGGACTGCCAGCTCCTGAT
 GTGTCAATGGTATCTAAATGGAAGAACAGTTCATCAGATGATTTGCACAAAATGATAGTGTCTGAGAAGG
 GTCTTCATTCACCTCATCTTTGAAGTAGTCAGAGCTTCAGATGCAGGGGCTTATGCATGTGTTGCCAAGAA
 TAGAGCAGGAGAAGCCACCTTCACTGTGCAGCTGGATGTCCTTGCAAAGAACAATAAAGAGCACCAATG
 TTTATCTACAAAACACAGAGCAAAAAAGTTTTAGAGGGAGATTCAGTGAAGTGAATGCAACTGACCGAATAAG
 CTATACCTCCACCAAAGCTTTTCTGGAAAAGAAATAATGAAATGGTACAATTCAACACTGACCGAATAAG
 CTATATCAAGATAAACACTGGAAGAGTTACTTTACTGATAAAAGATGTAACAAGAAGATGCTGGGTGG
 TATACTGTGTCAGCAGTTAATGAAGCTGGAGTACTACATGTAACAACAAGATTAGACGTTACGGCACGTC
 CAAACCAAACCTTCCAGCTCCTAAGCAGTTACGGGTTGACCAACATTCAGCAAATATTTAGCACTTAA
 TGGGAAAGGTTTGAATGTAACAAGCTTTTAAACCAGAAGGAGAATTTACGCGTTTGGCAGCTCAATCT
 GGACTCTATGAAAGTGAAGAAGT

ACGCGTACGCGGCCGCTCGAGCAGAAAACCTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC227183 representing NM_001135940
 Red=Cloning site Green=Tags(s)

MFNYERPDKHFIQSNPCGSRLQPPGPETSSFSSTKQSSIIQPRQCTEQRFSSASTLSSHITMSSSAFP
 ASPQQHAGSNPQQRVTTTYNQSPASFLSSILPSQPDYNSKIPSAMDSNYQQSSAGQPINAKPSQTANAK
 PIPRTPDHEIQGSKEALIQDLERKCLKKDTLLHNGNQRLTYEEKMARRLLGPQNAAAVFQAQDDSGAQDS
 QQHNSEHARLQVPTSQVRSRSTSRGDVNDQDAIQEKFYPPRFIQVPENMSIDEGFRMRDFKVSGLPAPD
 VSWYLNGRTVQSDDLHKMIVSEKGLHSLIFEVVRASDAGAYACVAKNRAGEATFTVQLDLVAKEHKRAPM
 FIYKPKQSKVLEGDVSKLEQISAIPPPPLFWKRNNEMVQFNTDRISLYQDNTGRVTLLIKDVNKKDAGW
 YTVSAVNEAGVTTNTRLDVTRPNQTLPAKQLRVRPTFSKYLALNGKGLNVKQAFNPEGEFQRLAAQS
 GLYESEEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001135940

ORF Size: 1497 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_001135940.1](#), [NP_001129412.1](#)

RefSeq Size: 1808 bp

RefSeq ORF: 945 bp

Locus ID: 9499

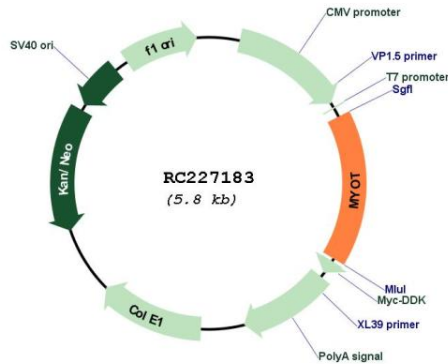
UniProt ID: [Q9UBF9](#)

Cytogenetics: 5q31.2

MW: 55.4 kDa

Gene Summary: This gene encodes a cytoskeletal protein which plays a significant role in the stability of thin filaments during muscle contraction. This protein binds F-actin, crosslinks actin filaments, and prevents latrunculin A-induced filament disassembly. Mutations in this gene have been associated with limb-girdle muscular dystrophy and myofibrillar myopathies. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined.[provided by RefSeq, Oct 2008]

Product images:



Circular map for RC227183