

## Product datasheet for **SC115849**

### Myotilin (MYOT) (NM\_006790) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myotilin (MYOT) (NM_006790) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYOT
Synonyms:	LGMD1; LGMD1A; MFM3; TTID; TTOD
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >OriGene ORF within SC115849 sequence for NM\_006790 edited (data generated by NextGen Sequencing)

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ATGTTTAACTACGAACGTCCAAAACACTTCATCCAGTCCCAAAACCCATGTGGCTCCAGA
TTGCAGCTCCTGGACCAGAAACCTCCAGCTTCTCTAGCCAGACCAACAGTCTTCCATT
ATCATCCAGCCCCGCCAGGTACAGAGCAAAGATTTTCTGCCTCCTCAACACTGAGCTCT
CACATCACCATGTCTCCTCTGCTTCCCTGCTTCTCCCCAGCAGCATGCTGGCTCCAAC
CCAGGCCAAAGGTTACAACCACTATAACCAAGTCCCAAGCCAGCTTCCCTCAGTCCATA
TTACCATCACAGCTGATTACAATAGCAGTAAAAATCCCTTCCGCTATGGATTCCAACAT
CAACAGTCTCAGCTGGCCAACCTATAAATGCAAAGCCATCCCAAACTGCAAATGCTAAG
CCCATACCAAGAACTCCTGATCATGAAATACAAGGATCAAAAAGAAGCTTTGATTCAAGAT
TTGGAAAGAAAGCTGAAATGCAAGGACACCCTTCTTATAATGGAAATCAACGTCTAACA
TATGAAGAGAAGATGGCTCGCAGATTGCTAGGACCACAGAATGCAGCTGCTGTGTTTCAA
GCTCAGGATGACAGTGGTGCACAAGACTCGCAGCAACACAACCTCAGAATGCGCGACTG
CAAGTTCTCATACACAAGTAAGAAGTAGATCAACCTCAAGGGGAGATGTGAATGATCAG
GATGCAATCCAGGAGAAATTTTACCACCAGTTCATTCAAGTCCAGAGAACATGTGCG
ATTGATGAAGGAAGATTCTGCAGAATGGACTTCAAAGTGAAGTGGACTGCCAGCTCCTGAT
GTGTCATGGTATCTAAATGGAAGAACAGTTCAATCAGATGATTTGCACAAAATGATAGTG
TCTGAGAAGGGTCTTCACTCACTCATCTTTGAAGTAGTCAGAGCTTCAGATGCAGGGCT
TATGCATGTGTTGCCAAGATAGAGCAGGAGAAGCCACCTTCACTGTGCAGCTGGATGTC
CTTGCAAAAAGAACATAAAAAGAGCACCAATGTTTATCTACAAAACACAGAGCAAAAAGTT
TTAGAGGGAGATTCAAGTAACTAGAATGCCAGATCTCGGCTATACCTCCACCAAAGCTT
TTCTGGAAGAAATAATGAAATGGTACAATCAACACTGACCGAATAAGCTTATATCAA
GATAACTGTGAAGAGTTACTTTACTGATAAAAAGATGTAACAAGAAAGATGCTGGGTGG
TATACTGTGTCAGCAGTTAATGAAGCTGGAGTGACTACATGTAACACAAGATTAGACGTT
ACGGCACGTCCAAACCAACTCTTCCAGCTCCTAAGCAGTTACGGGTTCCACCAACATTC
AGCAAATATTTAGCACTTAATGGGAAAGGTTTGAATGTAACAAGCTTTTAAACCCAGAA
GGAGAATTTAGCGTTTGGCAGCTCAATCTGGACTCTATGAAAGTGAAGAAGCTTTAA
    
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Clone variation with respect to NM\_006790.2

**5' Read Nucleotide Sequence:**

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>OriGene 5' read for NM_006790 unedited
TATAGGGCGGCCGGAATTCGGCAGGAGATGCCTCTTCCCTTCAATAGTGGGTTA
AACCCAGCTGGCACCTCTGGAACACGGGAACAATATCTTCAAGAGAAGGTCACTCTA
CCAAAGCCAGGAGCAGATTCTCAGGATCTCAACAAGGAAGAGCAGACCAAGTTGCT
TCTGATTCTTACAACCTTCCGTAATTCAGGCTTGTGGCCCAAATTCAGGGCCCCACC
CTTCCAGGAACAAATCATTATAGTNAATAATTTGGCCTTCATCCTTCCATATACCAACTA
AGCATGTTTAACTACGAACGTCCAAAACACTTCATCCAGTCCCAAAACCCATGTGGCTCC
AGATTGCAGCCTCCTGGACCAGAAACCTCCAGCTTCTCTAGCCAGACCAACAGTCTTCC
ATTATCATCCAGCCCCGCCAGGTACAGAGCAAAGATTTTCTGCCTCCTCAACACTGAGC
TCTCACATCACCATGTCTCCTCTGCTNTCCCTGCTTCTCCCCAGCAGCATGCTGGCTCC
AACCAGGCCAAAGGTTACAACCACTATAACCAAGTCCCAAGCCAGCTTCTCAGCTCC
ATATTACCATCACAGCCTGATTACANTAGCAGTAAAAATCCCTTCCGCTATGGATTCCAAC
TATCAACAGTCTCAGCTGGCCAACCTANTAATGCANAGCCATCCCAACTGCANATGCT
AAAGCCATACCNAGAAGTCTGATCATGAAATACANGGATCANAAAGAAGCTNTGATTNCA
GATTTGGAAAGAAAGCTGNAATGCANGGACACCCTTCTCATATGGANNATCACGTCTA
CATATGAAGAGAAGATGGCTCGCANATTGCTAGGACACAGAATGCAGCTGCTGTGTTTCA
AGCTCAGATGACAGTGTGCACAGACTCGCAGCACACACTCAGACATGCGCGACTGCAGTN
CTACATACAAGTAGAGTANATCACTAGGGGGATGGGATGATCAGAGCATCAGAGAATTTA
CCACCGTTTCATCAGGCCAAAACCTGTGTGTAAGAGACTGCAAGGACTCAGGAGGCTGCC
CTGAGGATGT
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_006790 unedited ACCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTAAATATTTG AATTTTATTTTCTTTTGACATACAACTGTGGAACACTCAGATAATCTATACCATGTTAGT ATTCTACAAGAGAAAACGGGTAACAGTATTTAGAAAGCAGTACCAGTAAACGTTATT ACAAGCATTAGATGTGTTAAAAAGTTGATACTAATTTATAACCTGTAATTGTTAAATGT GCATGACTTAAATGTTAAATCCTGTATTTTAAAGATAGTCTTCTGCAGTTACAAATCCAT ATACCCGATTTCTGTAGGCTTCACAAATCGGAGGGGTACATAGAATGTGCAAGAGTCA AAGGATAAATAATATTATAAATATATATTAACCTAATTAAACCATAAATCTG TTAATACAGCTATGGATTAATTTCAAAAAATGTAATCAATATATTACTAATGGTGTAG TTGGCTGTTTTCCAATGTTGGTAAAGTTATTAAGTTCTTCACTTTCATAGAGTCCAGAT TGAGCTGCCAACGCTGAAATTCTCTTCTGGGTTAAAGCTTGTTTTACATTCAAACCT TTCCCATTAAGTGCTAAATTTGCTGAATGTTGGTGAACCCGTAACCTGCTTAGGAGCT GGAAGAGTTTGGTTTGGACGTGCCGTAACTGTAATCTTGGTACATGTAGTCACTCCA GCTTCATTAAGTCTGACACAGTATACCACCCAGCATCTTCTTGGTTACATCTTTTATC AGTAAAGTACTCTTNCAGTGTTATCTTGATATAAGCTTATTCGGNCAGTGTGAATTGTA CCATTTCAATTATNCTTTTCAGNAAGCTTTGGTGGANGTATAGNCGAGATCTGGCATTCT AGTTCACTGAATCTCCCTCTAACTTTTTGCTCGNGGNTNNGAGAAAACATGGGCTCTTT
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_006790
<b>Insert Size:</b>	2240 bp
<b>OTI Disclaimer:</b>	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).
<b>RefSeq:</b>	<a href="#">NM_006790.1</a> , <a href="#">NP_006781.1</a>
<b>RefSeq Size:</b>	2244 bp
<b>RefSeq ORF:</b>	1497 bp
<b>Locus ID:</b>	9499
<b>UniProt ID:</b>	<a href="#">Q9UBF9</a> , <a href="#">A0A0C4DFM5</a>
<b>Domains:</b>	ig, IGc2, IG
<b>Gene Summary:</b>	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] Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).