

Product datasheet for **SC320817**

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:	Myotilin
Synonyms:	LGMD1; LGMD1A; MFM3; TTID; TTOD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_006790.1
 AGTCTGTGAGGGAAGGAGATGCCTCTTCCCTTCAATAGTGGGTAAACCCAGCTGG
 CACCCTCTGGAACACGGGAACAATATTCTTCAAGAGAAGGTCACCTACCAAAGCCAGG
 AGCACAGTATTCTCAGGATCTCAACAAGGAAGAGCAGACCAAGGTTGCTTCTGATTCCTT
 ACAACCTCCGTAATCCAGGCTTGTGGCCCAAATTCAGGGCCCCACCCTTCCAGGAAC
 AAATCATTATAGTAATAATTTGCCTTCATCTCCATATACCAACTAAGCATGTTTAACTA
 CGAACGTCCAAAACACTTCATCCAGTCCAAAACCCATGTGGCTCCAGATTGCAGCCTCC
 TGGACCAGAAACCTCCAGCTTCTCTAGCCAGACCAACAGTCTTCCATTATCATCCAGCC
 CCGCCAGTGACAGAGCAAAGATTTTCTGCCTCCTCAACACTGAGCTCTCACATACCAT
 GTCCTCCTCTGCTTCCCTGCTTCTCCCCAGCAGCATGCTGGCTCCAACCCAGGCCAAAG
 GGTTACAACCACCTATAACCAGTCCCCAGCCAGCTTCTCAGCTCCATATTACCATCACA
 GCCTGATTACAATAGCAGTAAAAATCCCTCCGCTATGGATTCCAACATCAACAGTCCTC
 AGCTGGCCAACTATAAATGCAAAGCCATCCAAACTGCAATGCTAAGCCCATACCAAG
 AACTCCTGATCATGAAATACAAGGATCAAAGAAGCTTTGATTCAAGATTTGAAAGAAA
 GCTGAAATGCAAGGACACCTTCTCATAATGGAATCAACGTCTAACATATGAAGAGAA
 GATGGCTCGCAGATTGCTAGGACCACAGAATGCAGCTGCTGTGTTCAAGCTCAGGATGA
 CAGTGGTGCAACAAGACTCGCAGCAACACAACCTCAGAACATGCGCGACTGCAAGTTCCTAC
 ATCACAAGTAAGAAGTAGATCAACCTCAAGGGGAGATGTGAATGATCAGGATGCAATCCA
 GGAGAAATTTTACCCACCACGTTTCATTCAAGTCCAGAGAACATGTCGATTGATGAAGG
 AAGATTCTGCAGAATGGACTTCAAAGTGAGTGGACTGCCAGCTCCTGATGTGTCATGGTA
 TCTAAATGGAAGAACAGTTCAATCAGATGATTTGCACAAAATGATAGTGTCTGAGAAGGG
 TCTTCATTCACCTCATCTTTGAAGTAGTCAGAGCTTCAGATGCAGGGGCTTATGCATGTGT
 TGCCAAGAATAGAGCAGGAGAAGCCACCTTCACTGTGCAGCTGGATGTCCTTGCAAAAAG
 ACATAAAAAGACCAATGTTTATCTACAAACCACAGAGCAAAAAAGTTTTAGAGGGAGA
 TTCAGTGAAACTAGAATGCCAGATCTCGGCTATACCTCCACCAAAAGCTTTTCTGGAAAAG
 AAATAATGAAATGGTACAATTCAACACTGACCGAATAAGCTTATATCAAGATAACACTGG
 AAGAGTTACTTTACTGATAAAAAGATGTAACAAGAAAGATGCTGGGTGGTATACTGTGTC
 AGCAGTTAATGAAGCTGGAGTGACTACATGTAACACAAGATTAGACGTTACGGCACGTCC
 AAACCAAACTCTCCAGCTCCTAAGCAGTTACGGGTTCCGACCAACATTACAGCAAAATTTT
 AGCACTTAATGGGAAAGTTTGAATGTAACAAGCTTTTAAACCAGAAGGAGAATTTCA
 GCGTTTGGCAGCTCAATCTGGACTCTATGAAAGTGAAGAACTTTAATAACTTTACCAACA
 TTGGAAAACAGCCAACCTACACCATTAGTAATATATTTGATTACATTTTTTTGAAATTAAT
 CCATAGCTGTATTAACAGATTATGGTTTTAATTAGGTAATATAGTTAATATATATTTATA
 ATATTATTTATCCTTTGACTCTTGCACATTCTATGTACCCTCCGATTTGTGAAGCCTAC
 AGGAAATCTGGGTATATGGATTTGTAAGTGCAGAAGACTATCTTAAAAACAGGATTTTA
 ACATTTAAGTCATGCACATTTACAATTACAGGTTATAAATTAGTATCAACTTTTTAAAC
 ACATCTAATGCTTGTAAATAACGTTTACTGGTACTGCTTTCTAAACTGTTTTACCCGTT
 TTCTCTTGTAGGAATACTAACATGGTATAGATTATCTGAGTGTCCACAGTTGTATGTCA
 AAAGAAAATAAAATTCAAATATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

- Restriction Sites:** Please inquire
- ACCN:** NM_006790
- 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:	<ol style="list-style-type: none">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:	<u>NM_006790.1</u> , <u>NP_006781.1</u>
RefSeq Size:	2244 bp
RefSeq ORF:	1497 bp
Locus ID:	9499
UniProt ID:	<u>Q9UBF9</u>
Cytogenetics:	5q31.2
Domains:	ig, IGc2, IG
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>