

Product datasheet for **SC305480**

MYPN (NM_032578) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYPN (NM_032578) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYPN
Synonyms:	CMD1DD; CMH22; MYOP; NEM11; RCM4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC305480 representing NM_032578. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC**CGATCGCC**
ATGCAAGACGACAGCATAGAAGCTTCTACTTCCATATCTCAGCTTCTAAGAGAGAGCTATTTAGCTGAA
ACCAGACATCGGGGAAACAATGAGAGGAGTCGAGCGGAGCCCTCCTCCAACCTTGCCATTTGCGCAGT
CCTTCTGGGGCCGCTGAAGGAGGCGGAGGCCAAGATGACCTTCCAGATCTTTCAGCCTTTCTGAGCCAA
GAAGAATTAGACGAAAGTGTCAATTTGGCAAGACTGGCCATCAATTACGACCTTTGGAGAAGGCAGAT
GAAACTCAAGCTAGAAAACGACTTTCCTGATCAGATGAAACACTCACCTAATTTAAGTTTGTAGCCT
AACTTCTGCCAGGATAACCTCGAAGTCCACAGCTCTAAAGAAAGCCCCAGGAGGCAAAAAGGCCA
CAGTATTGTTCTGAAACCCAGTCCAAAAAGTATTTTAAATAAGGCTGCCGACTTCATTGAAGAGCTA
TCCTCCCTTTTCAAATCCACAGCTCCAAAAGGATTAGACCTCGTGCCTGCAAAAACCAAGAGTAAA
CTGGAATCTCAAAACAAAGTTATGCAGGAAAACAGCTCCAGTTTCTCAGATCTGTGAGAAAGACGAGAA
AGATCTTCTGTTCCCATCCCTATCCCTGCGGATACCAAGGATAATGAAGTGAATCACGCCCTGGAACAG
CAGGAAGCCAAGAGGCGTGAAGCGGAGCAGGCTGCCAGTGAGGCGGCTGGTGGAGACACTACACAGGG
TCTTCCCTTTCATCTCTGTACTATGAAGAACCTCTGGGCAACCTCCCCGGTTCACTCAAAAGTTACGG
AGCAGAGAAGTTCCAGAAGGAACCTCGAGTACAGTTGGATTGCATAGTGGTAGGAATTCACCACTCAA
GTAAGGTGGTACTGTGAAGGCAAGGAGCTTGAATTTCCAGATATTCACATCGTCCAGGCAGGAAAT
CTGCACTCACTGACCATTGCGGAAGCCTTTGAAGAGGACACAGGACGCTATTCCTGCTTTGCTTCTAAC
ATCTATGGGACAGATTGACTTCTGCTGAGATTTATATAGAAGGGGTTTCTTCTTCTGACTCAGAAGGC
GACCCTAACAGGAAGAGATGAATCGAATCCAGAAGCCAAATGAGGTGTCATCTCTCCCACTACCTCT
GCAGTCATTCTCCAGCAGTACCCCAAGCCAGCATTGGTGGCCCAACCTCGTGTGCAACCATCCAG
CAGTGTGAGAGCCCCACCAATTACTTGCAGGGATTGGATGGAAAACCTATCATTGCAGCTCCTGTGTTT
ACAAAGATGCTACAAAATTTGTAGCTTCTGAGGGTCAGCTGGTTGTCTTTGAATGCAGAGTAAAAGGA
GCTCCATCTCCTAAGGTTGAGTGGTATAGAGAAGGGACTTAAATAGAAGATTCTCCAGATTTTAGGATT
TTACAGAAAAACCTCGATCCATGGCAGAGCCAGAGGAGATTGCACCTGGTCATTGCTGAGGTGTTT



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GCAGAAGATTCTGGGTGCTTCACATGTAAGCAACAATACGGCACAGTGTCAAGCATTGCACAG
 CTGCACGTGAGAGGAAATGAGGACCTCAGCAACAACGGGTCTCTTCACTCAGCCAACCTACCAACCA
 CTGGCAGCTATTGAGCCACAGCCCTCCCCACCCCACTCAGAGCCTCCATCTGTGGAACAACCCCCAAA
 CCCAACTCGAGGGGGTTCTGGTGAACCACAATGAGCCCCGGTCCAGTCCAGGATTGGGCTTCGTGTG
 CACTTCAACCTGCCTGAAGATGACAAAGGAAGTGAAGCATCTCCGAGGCTGGTGGTGACCACCAGA
 CAGACCAGGCCGATTCTTCCAGGAGAGGTTCAACGGACAGGCAACAAAAACCCAGAGCCTTCTTCC
 CCCGTGAAAGAGCCCCCTCCAGTTCTGGCCAAACCCAACTTGATTCCACTCAGTTACAACAGCTTAT
 AACCAAGTCTTACTGGAACAACACCAATTGCAAAACCCACCTCCTTCATCTCCTAAGGAGTTTCTTTT
 AGCATGACTGTTTTGAACTCCAATGCTCCCCAGCGGTGACAACATCCAGTAAGCAGGTGAAGGCTCCT
 TCATCAGACAGTTCAGCTTGGCCCGGCGAAGTATTTCTTCCCTCCACGAACACCACCGCAGCAACT
 GTGGCCCTTCCAGCTCTCCGGTGTTCAGTTGAGCAGCACTCTCAAATATTCAGAGGACAGTGAGC
 AAAGAAAGCCTCTTAGTGTCTACCCCTCTGTGCAAAACCAATCTCCAGGAGGGCTTTCATCCAAAT
 GAGCCACTCCACAGGCCCAACAGAACCAACACCACCACCATTCACATTTTCCATCCCCAGCGAAAC
 CAGTTTCAGCCCCGCTGTGTGTCCCAATTCTGTCTCTCTACCAGCCGATTGAGAACCAGTGGCT
 TTCTCAGCTCTGTTCTGCTTCTCTCCCTGCCATCCACCCACAAATGCCATGGGGCTGCCTAGAAGT
 GCACCATCCATGCCATCCAGGGATTAGCGAAGAAAAATACAAAGTCTCTCAACCAAGTGAATGATGAT
 AACATTCGTGAACTAAGAACGCAGTGATTGAGACTTGGGGAAAAAATAACTTTCAGTGATGTGAGA
 CCAACCAAGCAGGAGTACAAAATTTCAAGCTTTGAGCAGAGGCTGATGAATGAAATAGAGTTTCGCTTG
 GAACGTAATCTCTGTTGATGAATCAGATGATGAAATTAACATGATGAGATCCCCACGGGCAAGTGATT
 GCTCCATCTTTGACAAGAGACTCAAGCACTTCCGGGTACAGAGGCTCTCCAGTCACATTCACCTGC
 AAAATTGTTGGGATACCTGTTCCAAAGGTTTACTGGTTCAAAGATGGGAAGCAGATTTCTAAGAGAAAT
 GAGCACTGCAAAATGAGGCGAGAAGGAGATGGGACATGCTCTCTGCACATTGAATCCACTACCAGTGA
 GACGATGGCACTACACCATCATGGCAGCAACCCCAAGGGAGAATCAGCTGTTCTGGCCACTTGATG
 GTACAAAGTTTGCCCATTCGAGTCGGCTAACCTCTGCTGGTCAGTCTCACAGGGGAAGATCCCGAGTG
 CAAGAAAGAGACAAGAGCCCTACAGGAACGCTTTTTCCGACCACATTTCTGCAGGCTCCTGGGGAT
 ATGGTAGCTCATGAGGGGCGCTCTGTGCGTGGACTGTAAGGTGAGTGGTTTACCGCCCCGGAGCTG
 ACATGGCTACTCAATGGCCAACCTGTGCTACCAGATGCCTCCACAAGATGCTGGTCAGGGAGACCGGA
 GTCCACTCTCTGCTCATTGACCCACTCACTCAGCGCGACGACGGGACCTATAAGTGCATCGCTACCAAC
 AAAACCGGCAGAAATCTTTTAGTCTGGAGCTCTCTGTAGTACCAAAGAGGTGAAGAAAGCACCTGTG
 ATCCTGGAGAACTACAGAACTGCGGTGTCCCGAAGGCCACCCGTGAGACTGGAGTCCGCGTGATA
 GGCATGCCCCACCTGTGTTCTACTGGAAGAAAGACAATGAGACCATCCCTTGACACAGAGAGAGGATC
 AGTATGACACAGGACACAACAGGGTATGCCTGCCTTCTCATTACGCCAGCCAAGAAATCAGACGCTGGA
 TGGTACACGTGTGCAGCAAGAATGAAGCCGGCATCGTGTCTGCTGCACTGCCAGGCTGGATATATACGCT
 CAGTGGCACCATCAGATCCACCGCCCATGTCTGTCCGGCCAGTGGCAGTCTGCTACGGATCTCTCACC
 AGTAAAGGACTTGACATATTTCTGCCTTTTCTCCATGGAAAGCACGATGGTGTATTATGCTCTTCT
 CGGAGTGTAGTGGAGAGTGATGAACTTAA
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC

Restriction Sites:

SgfI-MluI

ACCN:

NM_032578

Insert Size:

3963 bp

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:	<u>NM_032578.3</u>
RefSeq Size:	5830 bp
RefSeq ORF:	3963 bp
Locus ID:	84665
UniProt ID:	<u>Q86TC9</u>
Cytogenetics:	10q21.3
MW:	145.3 kDa
Gene Summary:	Striated muscle in vertebrates comprises large proteins which must be organized properly to contract efficiently. Z-lines in striated muscle are a sign of this organization, representing the ends of actin thin filaments, titin, nebulin or nebulin and accessory proteins required for structure and function. This gene encodes a protein which interacts with nebulin in skeletal muscle or nebulin in cardiac muscle and alpha-actinin. In addition, this gene product can interact with a protein with the I-band indicating it has a regulatory as well as structural function. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011] Transcript Variant: This variant (1) encodes the longer isoform (a). Both variants 1 and 4 encode isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.