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Product datasheet for SC303408

MYOM2 (NM_003970) Human Untagged Clone

Product data:

Product Type: Expression Plasmids

Product Name: MYOM2 (NM_003970) Human Untagged Clone

Tag: Tag Free

Symbol: MYOM2

Synonyms: TTNAP

Vector: pCMV6 series

Fully Sequenced ORF:

>NCBI ORF sequence for NM_003970, the custom clone sequence may differ by one or more nucleotides

ATGTCCCTTGTGACTGTCCCCTTCTACCAGAAGAGACATAGGCACTTCGACCAGTCCTAC
CGTAATATTCAAACACGGTACCTGCTGGACGAATATGCGTCAAAAAAGCGAGCTTCCACC
CAGGCATCTTCCCAGAAGTCCTTGAGTCAGCGGTCGTCTTCACAGAGAGCCTCCAGCCAG
ACGTCCCTGGGAGGAACCATCTGCAGGGTCTGTGCGAAGCGAGTGAGCACGCAGGAAGAT
GAGGAGCAGGAGAACAGAAGCAGGTACCAGTCCCTGGTGGCCGCCTATGGTGAGGCCAAG
CGACAGCGCTTCCTCAGCGAGCTGGCCCACTTGGAGGAGGATGTCCACCTGGCACGCTCC
CAGGCCCGCGACAAGCTGGACAAATACGCCATTCAGCAGATGATGGAGGACAAGCTGGCC
TGGGAGAGACACACATTTGAAGAGCGGATAAGCAGGGCTCCTGAGATCCTGGTGCGGCTG
CGATCCCACACCGTCTGGGAGAGGATGTCTGTGAAACTCTGCTTCACCGTGCAAGGATTT
CCCACGCCCGTGGTGCAGTGGTACAAAGATGGCAGTCTGATTTGCCAGGCGGCTGAACCG
GGAAAGTACAGGATTGAGAGCAACTATGGCGTACACACACTGGAGATCAACAGGGCAGAC
TTTGACGACACTGCGACATACTCAGCAGTGGCCACCAATGCCCACGGACAAGTGTCCACC
AACGCGGCGGTGGTGGTGAGAAGGTTCCGGGGAGACGAGGAACCATTCCGTTCGGTGGGA
CTCCCGATTGGATTGCCCCTGTCATCGATGATTCCGTACACGCACTTCGACGTCCAGTTT
TTGGAGAAGTTTGGGGTCACCTTCAGGAGGGAAGGCGAGACGGTCACTCTCAAGTGCACC
ATGCTGGTGACGCCGGACCTGAAGCGGGTGCAGCCGCGCGCCGAGTGGTACCGCGATGAC
GTGCTGTTGAAAGAGTCCAAGTGGACGAAGATGTTCTTTGGAGAAGGCCAGGCCTCCCTG
TCCTTCAGCCACCTGCACAAGGACGACGAGGGCCTGTACACCCTGCGCATCGTGTCTCGG
GGCGGCGTCAGCGACCACAGCGCCTTCCTGTTTGTCAGAGATGCTGACCCGCTGGTCACA
GGGGCCCCCGGTGCACCCATGGACTTGCAGTGCCACGACGCCAACCGGGACTACGTCATC
GTGACCTGGAAGCCGCCCAACACCACCACTGAGAGCCCCGTCATGGGCTATTTTGTGGAC
CGATGTGAAGTAGGAACGAATAATTGGGTGCAGTGCAATGATGCACCGGTGAAAATCTGC
AAATACCCGGTCACAGGGCTTTTTGAAGGAAGGTCTTACATATTCCGAGTGAGGGCAGTG
AACAGTGCGGGCATCAGCCGACCCTCCAGGGTCTCTGATGCGGTGGCTGCACTTGACCCC
TTGGACCTCAGAAGGTTACAAGCCGTTCATTTGGAGGGAGAGAAGGAGATTGCCATTTAT
CAGGATGACCTTGAAGGTGACGCCCAGGTTCCAGGGCCTCCCACCGGTGTGCACGCTTCC
GAGATCAGCAGAAACTATGTCGTCCTCAGCTGGGAGCCACCCACTCCCCGTGGCAAGGAC
CCGCTCATGTACTTCATTGAGAAGTCGGTGGTGGGGAGCGGCAGCTGGCAGAGAGTCAAC
GCCCAGACGGCTGTGAGATCCCCGAGATATGCCGTGTTTGACCTCATGGAAGGGAAGTCT

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TATGTGTTCCGAGTGCTGTCAGCAAACCGGCATGGCCTGAGCGAACCTTCGGAGATAACG
TCCCCCATTCAGGCCCAGGATGTGACCGTTGTCCCTTCTGCTCCGGGTCGGGTTCTTGCT
TCCCGAAACACCAAGACGTCGGTGGTGGTGCAGTGGGACCGACCTAAGCATGAGGAGGAC
CTGCTGGGCTACTACGTGGACTGCTGTGTGGCCGGAACCAACCTCTGGGAGCCCTGCAAC
CACAAGCCCATTGGATACAACAGGTTCGTGGTGCACGGCTTAACCACGGGAGAGCAGTAC
ATCTTCCGAGTCAAGGCGGTCAATGCTGTGGGGATGAGTGAAAATTCCCAGGAATCAGAC
GTCATAAAAGTGCAGGCCGCACTCACCGTCCCGTCCCATCCTTATGGGATTACGCTCCTC
AACTGTGACGGCCACTCCATGACCCTCGGCTGGAAGGTCCCGAAATTCAGTGGTGGCTCG
CCCATCCTGGGCTACTACCTGGACAAGCGTGAAGTTCACCATAAAAACTGGCACGAGGTC
AATTCCTCACCCAGCAAACCGACAATCCTAACGGTGGACGGCTTGACGGAAGGCTCACTC
TACGAGTTCAAAATCGCCGCCGTCAACCTGGCCGGCATCGGGGAGCCCTCAGATCCCAGT
GAGCACTTCAAGTGTGAGGCCTGGACCATGCCGGAGCCCGGTCCTGCCTACGACTTGACG
TTCTGTGAGGTCAGGGACACGTCCTTGGTCATGCTGTGGAAGGCCCCTGTGTACTCCGGC
AGCAGCCCTGTTTCTGGATATTTCGTGGACTTCAGGGAGGAGGATGCTGGAGAGTGGATC
ACTGTAAATCAGACGACAACAGCCAACCGTTATTTAAAGGTCTCTGACCTGCAGCAAGGT
AAGACCTATGTCTTCAGGGTCCGGGCAGTCAATGCAAATGGCGTGGGGAAGCCCTCAGAC
ACGTCGGAGCCTGTGCTGGTAGAGGCGAGACCAGGCACCAAGGAAATCAGTGCTGGTGTC
GATGAACAAGGCAACATCTATCTGGGCTTCGACTGCCAGGAAATGACAGACGCGTCTCAG
TTCACCTGGTGTAAATCCTACGAGGAGATTTCAGATGATGAGAGGTTTAAAATCGAAACC
GTGGGGGATCACTCCAAGCTGTACTTAAAGAATCCGGATAAGGAGGATTTAGGGACTTAC
TCCGTGTCTGTAAGTGATACAGACGGAGTGTCCTCCAGTTTTGTTCTGGACCCAGAAGAG
CTCGAGCGTTTGATGGCATTGAGCAATGAAATAAAGAACCCCACAATTCCTCTGAAATCG
GAATTAGCTTATGAGATTTTTGATAAGGGGCGGGTTCGCTTCTGGCTCCAGGCTGAGCAC
TTATCACCAGATGCCAGCTACCGATTTATTATTAACGACAGAGAAGTCTCTGACAGCGAG
ATACACAGAATTAAATGTGACAAAGCTACTGGCATTATTGAGATGGTGATGGATCGATTT
AGTATTGAAAATGAGGGGACCTACACTGTGCAGATTCATGATGGGAAAGCCAAAAGTCAG
TCTTCTCTAGTTCTTATTGGAGATGCATTCAAGACTGTGCTGGAAGAGGCTGAGTTTCAA
AGGAAAGAATTTCTCAGGAAACAAGGCCCTCATTTTGCTGAGTACTTGCACTGGGATGTC
ACGGAAGAATGTGAAGTTCGACTTGTTTGCAAGGTTGCAAACACCAAGAAAGAAACCGTT
TTCAAATGGCTCAAGGATGATGTTCTGTATGAAACGGAGACACTGCCTAACCTGGAGAGG
GGAATCTGTGAGCTCCTCATCCCAAAGTTGTCAAAGAAGGACCACGGTGAATACAAGGCA
ACCTTGAAAGATGACAGAGGCCAAGATGTGTCCATCCTTGAAATAGCTGGCAAAGTGTAT
GATGATATGATTTTGGCAATGAGTAGAGTCTGTGGGAAATCTGCTTCGCCACTGAAGGTA
CTCTGCACCCCAGAAGGAATACGACTTCAGTGTTTCATGAAGTATTTTACAGACGAAATG
AAAGTGAACTGGTGTCACAAAGATGCTAAGATCTCATCCAGTGAGCATATGAGAATCGGG
GGGAGTGAAGAGATGGCTTGGCTGCAGATATGTGAGCCGACTGAGAAGGATAAAGGAAAA
TACACTTTTGAGATTTTCGATGGCAAAGACAACCATCAACGCTCCCTTGACCTGTCCGGA
CAAGCTTTTGATGAAGCATTTGCAGAATTCCAGCAATTCAAAGCTGCTGCTTTTGCAGAG
AAGAATCGTGGCAGGTTGATCGGCGGCTTGCCTGACGTGGTGACCATCATGGAAGGGAAG
ACCTTGAATCTGACCTGCACGGTGTTTGGAAACCCTGACCCCGAAGTGATTTGGTTCAAG
AACGACCAGGACATCCAGCTCAGCGAGCACTTCTCGGTGAAGGTGGAGCAGGCCAAGTAC
GTCAGCATGACCATCAAAGGCGTGACCTCCGAGGACTCGGGCAAGTACAGCATCAACATC
AAGAATAAGTATGGCGGGGAGAAGATCGACGTGACAGTGAGCGTGTACAAACACGGGGAG
AAGATCCCGGACATGGCCCCGCCCCAGCAAGCCAAGCCCAAGCTCATCCCCGCGTCTGCC
TCAGCGGCAGGCCAGTGA

Restriction Sites: Please inquire

ACCN: NM_003970

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:	NM_003970.1, NP_003961.1
RefSeq Size:	4939 bp
RefSeq ORF:	4398 bp
Locus ID:	9172
UniProt ID:	P54296
Cytogenetics:	8p23.3
Gene Summary:	The giant protein titin, together with its associated proteins, interconnects the major structure of sarcomeres, the M bands and Z discs. The C-terminal end of the titin string extends into the M line, where it binds tightly to M-band constituents of apparent molecular masses of 190 kD and 165 kD. The predicted MYOM2 protein contains 1,465 amino acids. Like MYOM1, MYOM2 has a unique N-terminal domain followed by 12 repeat domains with strong homology to either fibronectin type III or immunoglobulin C2 domains. Protein sequence comparisons suggested that the MYOM2 protein and bovine M protein are identical. [provided by RefSeq, Jul 2008]