

Product datasheet for SC321256

MYO19 (NM_025109) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO19 (NM_025109) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYO19
Synonyms:	MYOHD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM_025109.4
 GTTCTTCCCGCCGCTGACCTGGCCCGCCGCTTTCCAGTCTGGCCGGGCGGGGCTG
 AAGCACGGCGGCTCGGGCCGTGGGACCGTTCACACCCTTCCAGAAATCTTGCTGG
 TAACCGCGAAACCGACTGGAGCAGGAGCTGGGAGAACTGGAGAAAACCTGCTCTAATCTCA
 CTTGACTCCAGCTAGGAGCTGATGCTGCATCGTAATAACATTTGCAGAGCGCTTTACAG
 GCGCTGGAGTGACTTGTCTGAGATTCTCCAGAACTGAGCCCTTTGTTGGAACCATACCC
 CAGCCCATGGTCCCAGTACTAGGTGGATAGTACTCCTTGTACCTCCTGCAACCCAGAAAC
 CTGGCTGACCACTTTGAAGGAGGATGCTCCAGCAGGTCAATGGCCACAATCCGGGGTCTG
 ATGGCCAAGCCAGGGAGTACCTCAGAGAAGACCTGCAGGAGTTCTGGTGGGGAGGTCC
 TGCTGTACAACTGGATGACCTACCAGGGTGAATCCTGTGACACTAGAGACAGTCTGA
 GGTGCCTGCAGGCCCGGTACATGGCAGACACATTCTACACCAATGCTGGCTGCACCCTGG
 TAGCCTTGAACCCCTTCAAGCCTGTTCCCTCAGCTCTACTCGCCCGAGCTAATGAGAGAGT
 ACCATGCTGCGCCTCAGCCCCAGAACTGAAGCCCATGTGTTCACTGTGGGTGAACAGA
 CCTACAGGAATGTCAAGAGCCTGATTGAACCAAGTCAACCAAGTCTATTGTTGTCAGTGGAG
 AGAGTGGTGTGGAAAGACATGGACGTCTCGCTGCCTAATGAAGTTCTATGCTGTGGTGG
 CCACCTCACCTGCATCTTGGGAGAGCCACAAGATTGCAGAGAGGATAGAACAGAGGATCC
 TGAACCTCAACCTGTGATGGAAGCTTTTGGGAATGCGTGTACTGAGGAATAACAACA
 GCAGTCGCTTTGGGAAGTTCATCCAGCTCCAGCTGAACAGGGCTCAGCAAATGACTGGAG
 CCGCAGTCCAGACCTACCTCCTAGAGAAAACCTGAGTGGCCTGCCAGGCTTCCAGTGAGA
 GGAACCTTCCACATCTTCTATCAGATTTGCAAAGGAGCCAGTGGAGACGAGAGGCTCCAGT
 GGCACCTTCTGAGGGAGCTGCCTTCTCCTGGCTGCCCAACCCAGAGAGGAGCTTAGAAG
 AGGATTGTTTTGAGGTGACCAGAGAGGCCATGCTCCATTTGGGCATTGACACCCCTACCC
 AGAACAACATCTTTAAGGTCCTAGCTGGACTGCTGCACCTTGGCAATATCCAGTTTGCTG
 CCTCCGAGGATGAAGCCAGCCCTGCCAGCCGATGGATGATGCCAAGTACTCTGTCAGGA
 CGGCAGCCTCGCTGCTGGGGCTCCAGAGGACGTGCTGCTGGAGATGGTGCAGATTAGAA
 CCATCAGGGCAGGCAGACAGCAGAGGTGTTCCGGAAGCCCTGCGCCCGAGCCGAGTGTG
 ACACCCGTAGAGACTGCCTGGCCAACTGATCTATGCGCGGTTGTTTACTGGCTGGTAT



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CAGTGATCAACAGCAGCATCTGTGCAGACACCGACTCGTGGACCACTTTCATAGGCCTGC
 TGGATGTGTATGGATTTGAATCATTTCCTGACAACAGTCTGGAACAGTTGTGCATCAACT
 ACGCCAATGAGAAAGTGCAGCTGGAGGCCTGTGGCCTCGTGGAGACCATCCATATCAGTG
 CTGCTGGCTTCCCCATCCGGGTCTCACCGAACTTTGTAGAACGATACAAGTTACTAA
 GAAGGCTTCATCCTTGCACATCCTCTGGCCCCGACAGCCCATATCCTGCCAAAGGCTCC
 CTGAATGGTGTCCACACAGCGAGGAAGCCACGCTTGAACCTCTCATCCAGGACATTCTCC
 ACACTCTGCCGGTCTTAECTCAGGCAGCAGCCATAACTGGTGACTCGGCTGAGGCCATGC
 CAGCCCCCATGCACTGTGGCAGGACCAAGGTGTTGACTGACTCTATGCTGGAGCTTC
 TGGAAATGTGGCGTGTCCCGGGTGTGGAGCAGTGTGCCCGCTGCATCCAGGGTGGCTGGA
 GGCGACACCGGCACCGAGAGCAGGAGCGGCAGTGGCGGGCCGTATGCTCATCCAGGCAG
 CCATTCGTTCTGGTAACTCGGAAACACATCCAGAGGCTGCATGCAGCTGCCACAGTCA
 TCAAGCGTGCATGGCAGAAGTGGAGAATCAGAATGGCCTGCCTTGCTGCTAAAGAGCTGG
 ATGGTGTGGAAGAAAAACTTCTCTCAAGCTCCCTGTTCCCTGAGCACCTCGCCGCTGC
 AGACCAGGCTCCTGGAGGCAATAATCCGCCTCTGGCCCCGGGACTGGTCTGGCCAATA
 CGGCTATGGGTGTAGGCAGCTTTCAGAGGAAATTAGTGGTCTGGGCTTGCCTCCAGCTCC
 CCAGGGGAGCCCCAGTAGCTACACTGTCCAGACAGCACAAAGACCAGGCTGGTGTACAGT
 CCATCCGAGCGCTGCCTCAGGGATCGATAAAGTTTCACTGCAGAAAGTCTCCACTGCGGT
 ATGCTGACATCTGCCCTGAACCTTACCCTACAGCATTACAGGCTTTAATCAGATTCTGC
 TGGAAAGACACAGGCTGATCCACGTGACCTCTTCTGCCTTCACTGGGCTGGGGTATCCT
 TGGTGCCTTTGTTTCCACAAGGCCTTTTCTGCCCCCTGCCTTGCCAAAGACATTTAATC
 AGCACACAGCTGCCAGACTATCCCACAGTGTCCAAATGCACATGAACAACAGTGACGG
 CTCCAGCCTTCGACCCAGAGCCCCGTGCCAGTGCCTCAGTGGGCTGGGGTTCAGGCT
 ACATCAAGCACTGATGGTGTGAGGGCTGGTAGTTACCAAATCAGGGTTAAGAAACATCAG
 GGCCACATTTCACTACCTTCACAGATCAAACCTCAGCAGCAGTCACTGACTGTCTGTACTA
 CACTGGGGATCCCAATTCACATAAGCACTTTTGGAAAGAAAACAGCCAAAGTTGGCTAA
 AATTGGCGCTGGAATTTGGGCTGGGAAAAATCTTGTGGTTATTTCTTTAAAAAGGAACA
 AAATTTAGTATTTAATTAGTTGATTTATTTAATGTAATTTCAAACAATTAATTAATGAA
 TAATGCAATGTAATAAAAAAAAAAAAAAAAAA

Restriction Sites:

Please inquire

ACCN:

NM_025109

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_025109.4](#), [NP_079385.2](#)

RefSeq Size: 3258 bp

RefSeq ORF: 2313 bp

Locus ID: 80179

UniProt ID: [Q96H55](#)

Cytogenetics: 17q12

Domains: IQ, myosin_head

Gene Summary: Actin-based motor molecule with ATPase activity that localizes to the mitochondrion outer membrane (PubMed:19932026, PubMed:23568824, PubMed:25447992). Motor protein that moves towards the plus-end of actin filaments (By similarity). Required for mitochondrial inheritance during mitosis (PubMed:25447992). May be involved in mitochondrial transport or positioning (PubMed:23568824).[UniProtKB/Swiss-Prot Function]
Transcript Variant: This variant (1) lacks an alternate in-frame segment, compared to variant 2. The resulting isoform (1) lacks an internal segment in the central coding region, compared to isoform 2.