

## Product datasheet for **SC318247**

### **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-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >SC318247 representing NM\_025109.  
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAATACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGCTCCAGCAGGTCAATGGCCACAATCCGGGGTCTGATGGCCAAGCCAGGGAGTACCTCAGAGAAGAC
CTGCAGGAGTTCCTGGGTGGGGAGGTCTGTGTACAAACTGGATGACCTCACCAGGGTGAATCCTGTG
ACACTAGAGACAGTCTGAGGTGCCTGCAGGCCCGGTACATGGCAGACACATTCTACACCAATGCTGGC
TGCACCCTGGTAGCCTTGAACCCCTTCAAGCCTGTTCTCAGCTCTACTCGCCCGAGCTAATGAGAGAG
TACCATGCTGCGCCTCAGCCCCAGAAAAGTGAAGCCCCATGTGTTCACTGTGGGTGAACAGACCTACAGG
AATGTCAAGAGCCTGATTGAACCAAGTCAACCAAGTCTATTGTTGTCAGTGGAGAGAGTGGTCTGGAAG
ACATGGACGTCTCGTGCCTAATGAAGTCTATGCTGTGGTGGCCACCTCACCTGCATCTGGGAGAGC
CACAAGATTGCAGAGAGGATAGAACAGAGGATCCTGAACCTCAACCTGTATGGAAGCTTTGGGAAT
GCGTGTACTGAGGAATAACAACAGCAGTCGCTTTGGGAAGTTCATCCAGCTCCAGCTGAACAGGGCT
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TCTCACCGAAAAGTGTGTAAGCATACAAGTACTAAGAAGGCTTCATCCTTGCACATCCTTGGCCCC
GACAGCCCATATCCTGCCAAAGGCTCCCTGAATGGTGTCCACACAGCGAGGAAGCCACGCTTGAACCT
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GAGGCCATGCCAGCCCCATGACTGTGGCAGGACCAAGGTGTTTATGACTGACTCTATGCTGGAGCTT
CTGGAATGTGGGCTGCCGGGTGCTGGAGCAGTGTGCCCGTGCATCCAGGGTGGCTGGAGGCGACAC
CGGACCCAGAGCAGGAGCGGCTGCGGGCCGTCATGCTCATCCAGGCAGCCATTCGTTCTGGTTA
ACTCGGAAACACATCCAGAGGCTGCATGCAGTGCACAGTGCATCAAGCGTGCATGGCAGAAAGTGGAGA
ATCAGAATGGCCTGCCTTGTGCTAAAGAGCTGGATGGTGTGGAAGAAAAACACTTCTCTCAAGCTCCC
TGTTCCCTGAGCACCTCGCCGCTGCAGACCAGGCTCCTGGAGGCAATAATCCGCCTTGGCCCCGGGA
CTGGTCTGGCCAATACGGCTATGGGTGTAGGCAGCTTTCAGAGGAAATAGTGGTCTGGGCTTGCCCTC
CAGCTCCCCAGGGGCGAGCCAGTAGCTACACTGTCCAGACAGCACAAGACCAGGCTGGTGTACGTCC
ATCCGAGCGTGCCTCAGGGATCGATAAAGTTTCACTGCAGAAAGTCTCCACTGCGGTATGCTGACATC
TGCCCTGAACCTTCAACCTACAGCATTACAGGCTTAAATCAGATTCTGCTGGAAGACACAGGCTGATC
CACGTGACCTTCTTGCCTTCACTGGGCTGGGGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_025109

**Insert Size:** 2313 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).

<b>OTI Annotation:</b>	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.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_025109.5</a>
<b>RefSeq Size:</b>	3818 bp
<b>RefSeq ORF:</b>	2313 bp
<b>Locus ID:</b>	80179
<b>UniProt ID:</b>	<a href="#">Q96H55</a>
<b>Cytogenetics:</b>	17q12
<b>Domains:</b>	IQ, myosin_head
<b>MW:</b>	86.7 kDa
<b>Gene Summary:</b>	<p>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]</p> <p>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.</p>