

Product datasheet for SC302747

MYO19 (NM_001033580) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO19 (NM_001033580) 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)
Fully Sequenced ORF:	>SC302747 representing NM_001033580. Blue=Insert sequence Red=Cloning site Green=Tag(s)

GCTCGTTTGTAGTAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
 ATGCTCCAGCAGGTCAATGGCCACAATCCGGGGTCTGATGGCCAAGCCAGGGAGTACCTCAGAGAAGAC
 CTGCAGGAGTTCCTGGGTGGGAGGTCTGCTGTACAACTGGATGACCTCACCAGGGTGAATCCTGTG
 AACTAGAGACAGTCTGAGGTGCCTGCAGGCCCGGTACATGGCAGACACATTCTACACCAATGCTGGC
 TGCACCTGGTAGCCTTGAACCCCTTCAAGCCTGTTCTCAGCTCTACTCGCCCGAGCTAATGAGAGAG
 TACCATGCTGCGCCTCAGCCCCAGAACTGAAGCCCCATGTGTTCACTGTGGGTGAACAGACCTACAGG
 AATGTCAAGAGCCTGATTGAACCACTCAACCACTTATTGTTGTCAGTGGAGAGAGTGGTCTGGAAG
 ACATGGACGTCTCGCTGCCTAATGAAGTTCTATGCTGTGGTGGCCACCTCACCTGCATCTTGGGAGAGC
 CACAAGATTGCAGAGAGGATAGAACAGAGGATCCTGAACCTCAACCCCTGTCATGGAAGCTTTGGGAAT
 GCGTGTACACTGAGGAATAACAACAGCAGTTCGCTTTGGGAAGTTCATCCAGCTCCAGCTGAACAGGGCT
 CAGCAATGACTGGAGCCGAGTCCAGACCTACCTCCTAGAGAAAACCTCGAGTGGCTGCCAGGCTTCC
 AGTGAGAGGAACCTCCACATCTTCTATCAGATTGCAAAGGAGCCAGTGAAGGACGAGAGGCTCCAGTGG
 CACCTTCTGAGGAGCTGCCTTCTCCTGGCTGCCCAACCCAGAGAGGAGCTTAGAAGAGGATTGTTTT
 GAGGTGACCAGAGAGGCCATGCTCCATTGGGCATTGACACCCCTACCCAGAACAACATCTTTAAGGTC
 AGAAGAAAAGCCACGCCACTTAAGTTTGGCAGAGATGACGGGCAGCCCTTTGCATAG
 ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
 TACAAGGATGACGACGATAAGGTTTAAACGCCCGGC

Restriction Sites:	SgfI-MluI
ACCN:	NM_001033580
Insert Size:	954 bp


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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:	NM_001033580.2
RefSeq Size:	2256 bp
RefSeq ORF:	954 bp
Locus ID:	80179
UniProt ID:	Q96H55
Cytogenetics:	17q12
MW:	35.9 kDa
Gene Summary:	<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 (3) uses an alternate 3' coding region, 3' UTR, and poly-adenylation signal, compared to variant 2. The resulting isoform (3) has a substantially shorter and distinct C-terminus, compared to isoform 2.</p>