

Product datasheet for **SC302747**

MYO19 (NM_001033580) Human Untagged Clone

Product data:

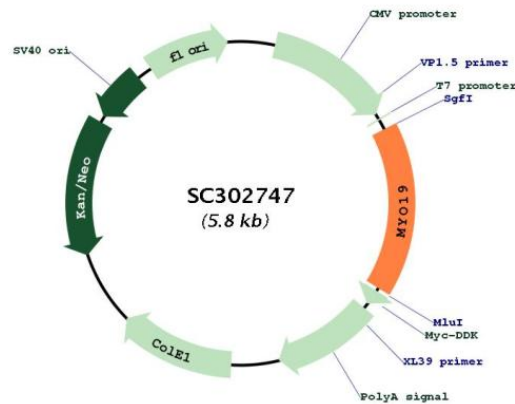
Product Type:	Expression Plasmids
Product Name:	MYO19 (NM_001033580) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYO19
Synonyms:	MYOHD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC302747 representing NM_001033580. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGCATCGCC
ATGCTCCAGCAGGTCAATGGCCACAATCCGGGGTCTGATGGCCAAGCCAGGGAGTACCTCAGAGAAGAC
CTGCAGGAGTTCCTGGGTGGGGAGGTCCTGCTGTACAACTGGATGACCTCACCAGGGTGAATCCTGTG
ACACTAGAGACAGTCCTGAGGTGCCTGCAGGCCCGGTACATGGCAGACACATTCTACACCAATGCTGGC
TGCACCCTGGTAGCCTTGAACCCCTTCAAGCCTGTTCTCAGCTCTACTCGCCGAGCTAATGAGAGAG
TACCATGCTGCGCCTCAGCCCCAGAACTGAAGCCCCATGTGTTCACTGTGGGTGAACAGACCTACAGG
AATGTCAAGAGCCTGATTGAACCAGTCAACCAGTCTATTGTTGTCAGTGGAGAGAGTGGTCTGGAAG
ACATGGACGTCTCGCTGCCTAATGAAGTCTATGCTGTGGTGGCCACCTCACCTGCATCTTGGGAGAGC
CACAAGATTGCAGAGAGGATAGAACAGAGGATCCTGAACTCCAACCTGTGATGGAAGCTTTTGGGAAT
GCGTGTACACTGAGGAATAACAACAGCAGTCGCTTTGGGAAGTTCATCCAGCTCCAGCTGAACAGGGCT
CAGCAATGACTGGAGCCGAGTCCAGACCTACCTCCTAGAGAAAACCGAGTGGCCTGCCAGGCTTCC
AGTGAGAGGAACCTCCACATCTTCTATCAGATTTGCAAAGGAGCCAGTGAAGGACGAGAGGCTCCAGTGG
CACCTTCTGAGGGAGCTGCCTTCTCCTGGCTGCCAACCCAGAGAGGAGCTTAGAAGAGGATTGTTTT
GAGGTGACCAGAGAGGCCATGCTCCATTTGGGCATTGACACCCCTACCCAGAACAACATCTTTAAGGTC
AGAAGAAAAGCCACGCCACTTAAGTTTGGCAGAGATGACGGGCAGCCCTTGCATAG
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI



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Plasmid Map:


ACCN: NM_001033580

Insert Size: 954 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: [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: 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 (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.