

Product datasheet for **RC228626**

MYO19 (NM_001163735) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MYO19 (NM_001163735) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MYO19
Synonyms:	MYOHD1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC228626 representing NM_001163735
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCTCCAGCAGGTCAATGGCCACAATCCGGGGTCTGATGGCCAAGCCAGGGAGTACCTCAGAGAAGACC
 TGCAGGAGTTCCTGGGTGGGAGGTCTGCTGTACAAACTGGATGACCTACCAGGGTGAATCCTGTGAC
 ACTAGAGACAGTCTGAGGTGCCTGCAGGCCCGGTACATGGCAGACACATTCTACACCAATGCTGGCTGC
 ACCCTGGTAGCCTGAACCCCTCAAGCCTGTTCTCAGCTCTACTCGCCCGAGCTAATGAGAGAGTACC
 ATGCTGCGCCTCAGCCCCAGAACTGAAGCCCATGTGTTCACTGTGGTGAACAGACCTACAGGAATGT
 CAAGAGCCTGATTGAACCACTCAACCAGTCTATTGTTGTCAGTGGAGAGAGTGGTCTGGAAGACATGG
 ACGTCTCGCTGCCTAATGAAGTCTATGCTGTGGTGGCCACCTCACCTGCATCTGGGAGAGCCACAAGA
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 ACTTCCACATCTTCTATCAGATTTGCAAAGGAGCCAGTGAAGACGAGAGGCTCCAGTGGCACCTTCTGA
 GGGAGCTGCCTTCTCCTGGCTGCCAACCCAGAGAGGAGCTTAGAAGAGGATTGTTTTGAGGTGACCAGA
 GAGGCCATGCTCCATTTGGGCATTGACACCCCTACCCAGAACAACATCTTAAAGTCTAGCTGGACTGC
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 CCGCTAGAGACTGCCTGGCCAACTGATCTATGCGCGTGTGTTGACTGGCTGGTATCAGTGATCAACAG
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 GGACAACCAGCCCTGTTTGGATCTCATTGAGGGAAGCCCATCAGCATCTGCTCCCTATAAATGAGGAA
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 CCTGCCTGGGCCACAATAAGCTCAGCCGGGAGCCAGCTTCATTGTTGTCATTATGCGGGGCTGTGCG
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 TTGCACATCCTCTGGCCCCGACAGCCATATCCTGCCAAAGGGCTCCCTGAATGGTGTCCACACAGCGAG
 GAAGCCACGCTTGAACCTCTCATCCAGGACATTCTCCACACTCTGCCGCTCCTAACTCAGGCAGCAGCCA
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 TCTCAAGCTCCCTGTTCCCTGAGCACCTCGCCGCTGCAGACCAGGCTCCTGGAGGCAATAATCCGCCTCT
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 CTGACATCTGCCCTGAACCTTACCCTACAGCATTACAGGCTTAAATCAGATTCTGCTGGAAGACACAG
 GCTGATCCACGTGACCTTCTGCTTCACTGGGCTGGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC228626 representing NM_001163735
 Red=Cloning site Green=Tags(s)

MLQQVNGHNPGSDGQAREYLREDLQEFLGGEVLLYKLDDLTRVNPVTLETVLRCLQARYMADTFYTNAGC
 TLVALNPFKPVPLQYSPELMREYHAAPQPQKLKPHVFTVGEQTYRNVKSLIEPVNQSIIVSGESGAGKTW
 TSRLCMKFYAVVATSPASWESHKIAERIEQRILNSNPVMEAFGNACTLRNNSSRFGKFIQLQLNRAQQM
 TGAAVQTYLLEKTRVACQASSERNFHIFYQICKGASERLQWHLPEGAASFSLPNPERSLEEDCFEVTR
 EAMLHLGIDTPTQNNIFKVLAGLLHLGNIQFAASEDEAQCQPMDDAKYSVRTAASLLGLPEDVLLVMVQ
 IRTIRAGRQQQVFRKPCARAECDRRDCLAKLIYARLFDWLVSVINSSICADTDSWTTFIGLLDVYGFES
 FPDNSLEQLCINYANEKLQHFVAHYLRAQQEYAVEGLEWSFINYQDNQPCLDLIEGSPISICSLINEE
 CRLNRPSSAAQLQTRIETALAGSPCLGHNKLREPSFIVVHYAGPVRYHTAGLVEKNKDIPELTRLQ
 QSQDPLLMGLFPTNPKEKTQEPPGQSRAPVLTVVSKFKASLEQLLQVLHSTTPHYIRCIPNSQGGQQT
 FLQEEVLSQLEACGLVETIHI SAAGFPIRVSHRNFVERYKLLRRLHPCTSSGPDSPYPAKGLPEWCPHSE
 EATLEPLIQDILHTLPVLTQAAAITGDSAEAMPAPMHCGRTKVFMDSMLELLECGRARVLEQCARCIIQG
 GWRRRHRHREQERQWRAVMLIQAAIRSWL TRKHIQRLHAAATVIKRAWQKWRIRMACLA AKELDGVEEKHF
 SQAPCSLSTSPQLTRLLEAIIRLWPLGLVLANTAMGVGSFQRKLVWACLQLPRGSPSSYTVQTAQDQAG
 VTSIRALPQGSIKFHCRKSPLRYADICPEPSPYSITGFNQILLERHRLIHVTSSAFTGLG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

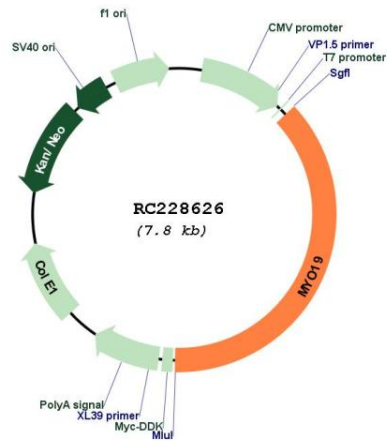


ACCN: NM_001163735

ORF Size: 2910 bp

OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
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_001163735.1 , NP_001157207.1
RefSeq ORF:	2913 bp
Locus ID:	80179
UniProt ID:	Q96H55
Cytogenetics:	17q12
MW:	109 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]

Product images:



Circular map for RC228626