

Product datasheet for MR206167

Myohd1 (BC007156) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myohd1 (BC007156) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myohd1
Synonyms:	1110055A02Rik; Myohd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206167 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTGTTTCCTGCCAACCTGAAGAGAAGACCCAGGAGGAGCTGTCTGGCCAGAGCCGGGCTCCTGCAT
TGACTGTGGTGTCCAAGTTCAAGGCCTCACTGGAACAGCTCCTGCAGGTCTACATAATACAACACCCCA
CTACATTCGCTGCATCAAGCCCAACAGCCAGAGTCAGCCACAGACTTTCTCCAAGAAGAGGTCTGAAC
CAGTTAGAGGCCGTGGCCTTGTGGAACCATTCACATCAGTGTCTGGCTTTCCATCCGGGTCTCTC
ACCAGAATTCATAGAAAGATATAAACTACTGAGAAGGCTCGGACCTCGCATGTCTCTGGCCTCGGGG
CCTGGAGCCTGCCGAAGGTCTCTGAGCAGCCTCTGTGTGCCAAGGAGGCCACACTGCAACCTCTACTA
CAGGACATTCTCCATGCTCTGCCAGCTTAATTCAGACAGCAGCCACTCCCAGTGACCCGGCTAAGAACA
CACAAATCCCCTGTACTGTGGCAGGACAAAGATCTTCATGACTGACTCCATGCTAGAGCTTCTGGAATG
TGGGCGTGCCAGATGCTGGAGCAGTGTGCCCGTTGCATCCAGTGTGGCTGGAGGCGACACCCGGCTCCAA
AAGCAGGAGAAACAGAGGCGGGCTGCCGTGCTCATCCAGGCTGCTTTTAGGTCTGGTTAACTCGGAAAC
ACATCAGAAGGTTACACATAGCTGCCACGGTCATCAAGCACGCATGGCATAAGTGGAATCAGAATGCC
CTGTCTTGCCCTCTAAAGAACTGGATGGTATGGAGGAGAAACCCATGCCTCAGGCTCCTGGTACCTGGCG
TCCTCGATGTCCCAGCACACTAGGTTCTGGGAGCAATAATCCATCTCTGGCCCTGGGACTGGTGC
TAGCCAACTCAGCTGATGGCGTACGTGGCTTTAGAGGAAACTGGTAGCCATGCCTGCCTTCGGCTTCC
CTCAGACAGACCCAGCAAAAGTCCAGACACCACAACAGGATCAGGCTGGTATTACATCTATCAGAGCA
CTGCCCCAGGGCTCGATAAAGTTTCACTGCAGGAAGTCTCCACTTCAGTATGCTGACATCTGCCCTGACC
TTTCAGCCTCCTGTGTTACTGGCTTTAATCAGATTCTGCTAGAAAGCCACAGGCCAGTCCAAGTG

ACGGTACGGGCGGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206167 protein sequence
Red=Cloning site Green=Tags(s)

MLFPANPEEKTQEELSGQSRAPALTVVSKFKASLEQLLQVLHNTTPHYIRCIPNSQSQPQTFLQEEVLN
 QLEACGLVETIHI SAAGFP IRVSHQNF IERYKLLRRLGPRMSSGLGGLPAEGSSQPLCAKEATLQPLL
 QDILHALPALIQTAATPSDPKNTQIPL YCGRTKIFMTDSMLELLECGRAQMLEQCARCICQGWRRHRLQ
 KQEKQRRRAAVLIQA AFRSWL TRKHIRRLHIAATVIKHAWHKWRIRMACLASKELDGMEEKMPMPQAPGTLR
 SSMSPAHTRFLGAI IHLWPLGLV LANSADGVRGFQRKLV AHACLRLPSDRPSNKVQTPQQDQAGITSIRA
 LPQGSIKFHCRKSPLQYADICPDPSASCVTGFNQILLESHPVQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: BC007156

ORF Size: 1185 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:

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: [BC007156](#), [AAH07156](#)

RefSeq Size: 2856 bp

RefSeq ORF: 1187 bp

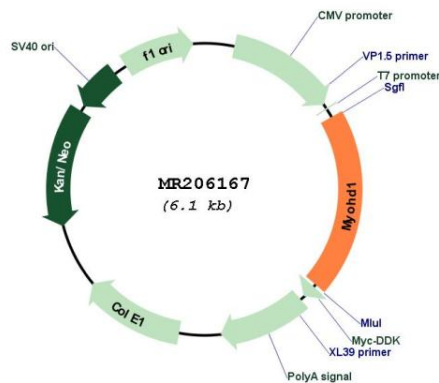
Locus ID: 66196

Cytogenetics: 11 C

MW: 44.2 kDa

Gene Summary: Actin-based motor molecule with ATPase activity that localizes to the mitochondrion outer membrane (PubMed:24825904). Motor protein that moves towards the plus-end of actin filaments (PubMed:24825904). Required for mitochondrial inheritance during mitosis (By similarity). May be involved in mitochondrial transport or positioning (By similarity). [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206167