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Product datasheet for MG206167

Myohd1 (BC007156) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myohd1 (BC007156) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myohd1
Synonyms:	1110055A02Rik; Myohd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

ORF Nucleotide Sequence:

>MG206167 representing BC007156
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGTTTCCTGCCAACCCTGAAGAGAAGACCCAGGAGGAGCTGTCTGGCCAGAGCCGGGCTCCTGCAT
TGACTGTGGTGTCCAAGTTCAAGGCCTCACTGGAACAGCTCCTGCAGGTCCTACATAATACAACACCCCA
CTACATTCGCTGCATCAAGCCCAACAGCCAGAGTCAGCCACAGACTTTCCTCCAAGAAGAGGTCCTGAAC
CAGTTAGAGGCCTGTGGCCTTGTGGAAACCATTCACATCAGTGCTGCTGGCTTTCCCATCCGGGTCTCTC
ACCAGAACTTCATAGAAAGATATAAACTACTGAGAAGGCTCGGACCTCGCATGTCCTCTGGCCTCGGGGG
CCTGGAGCCTGCCGAAGGGTCCTCTGAGCAGCCTCTGTGTGCCAAGGAGGCCACACTGCAACCTCTACTA
CAGGACATTCTCCATGCTCTGCCAGCTTTAATTCAGACAGCAGCCACTCCCAGTGACCCGGCTAAGAACA
CACAAATCCCACTGTACTGTGGCAGGACAAAGATCTTCATGACTGACTCCATGCTAGAGCTTCTGGAATG
TGGGCGTGCCCAGATGCTGGAGCAGTGTGCCCGTTGCATCCAGTGTGGCTGGAGGCGACACCGGCTCCAA
AAGCAGGAGAAACAGAGGCGGGCTGCCGTGCTCATCCAGGCTGCTTTTAGGTCCTGGTTAACTCGGAAAC
ACATCAGAAGGTTACACATAGCTGCCACGGTCATCAAGCACGCATGGCATAAGTGGAGAATCAGAATGGC
CTGTCTTGCCTCTAAAGAACTGGATGGTATGGAGGAGAAACCCATGCCTCAGGCTCCTGGTACCCTGCGG
TCCTCGATGTCCCCAGCACACACTAGGTTCCTGGGAGCAATAATCCATCTCTGGCCCCTGGGACTGGTGC
TAGCCAACTCAGCTGATGGCGTACGTGGCTTTCAGAGGAAACTGGTAGCCCATGCCTGCCTTCGGCTTCC
CTCAGACAGACCCAGCAACAAAGTCCAGACACCACAACAGGATCAGGCTGGTATTACATCTATCAGAGCA
CTGCCCCAGGGCTCGATAAAGTTTCACTGCAGGAAGTCTCCACTTCAGTATGCTGACATCTGCCCTGACC
CTTCAGCCTCCTGTGTTACTGGCTTTAATCAGATTCTGCTAGAAAGCCACAGGCCAGTCCAAGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

View online »

Protein Sequence:

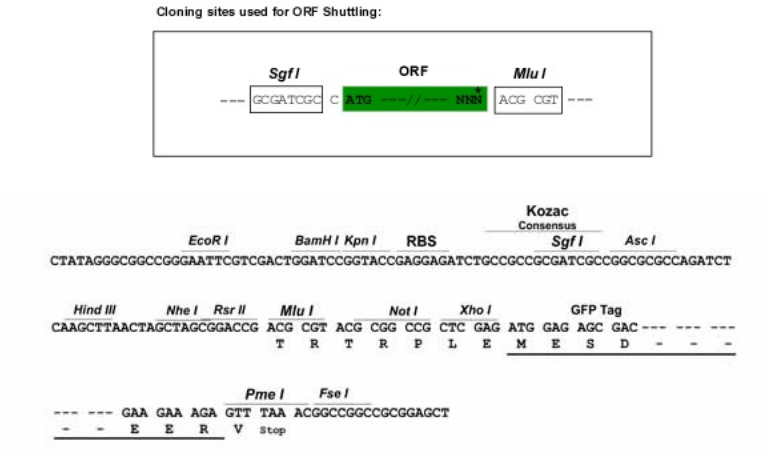
>MG206167 representing BC007156
Red=Cloning site Green=Tags(s)

MLFPANPEEKTQEELSGQSRAPALTVVSKFKASLEQLLQVLHNTTPHYIRCIKPNSQSQPQTFLQEEVLN
QLEACGLVETIHISAAGFPIRVSHQNFIERYKLLRRLGPRMSSGLGGLEPAEGSSEQPLCAKEATLQPLL
QDILHALPALIQTAATPSDPAKNTQIPLYCGRTKIFMTDSMLELLECGRAQMLEQCARCIQCGWRRHRLQ
KQEKQRRAAVLIQAAFRSWLTRKHIRRLHIAATVIKHAWHKWRIRMACLASKELDGMEEKPMPQAPGTLR
SSMSPAHTRFLGAIIHLWPLGLVLANSADGVRGFQRKLVAHACLRLPSDRPSNKVQTPQQDQAGITSIRA
LPQGSIKFHCRKSPLQYADICPDPSASCVTGFNQILLESHRPVQV

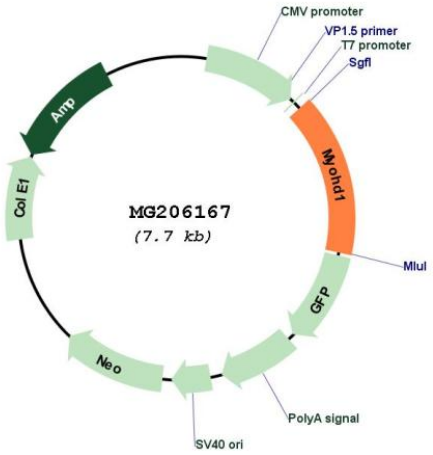
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC007156

ORF Size:	1187 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
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]