

Product datasheet for **MG225026**

Myod1 (NM_010866) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Myod1 (NM_010866) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Myod1
Synonyms: AI503393; bHLHc1; MYF3; MyoD; Myod-1
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG225026 representing NM_010866
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCTTCTATCGCCGCCACTCCGGGACATAGACTTGACAGGCCCCGACGGCTCTCTGCTCCTTTG
 AGACAGCAGACGACTTCTATGATGACCCGTGTTTCGACTCACCAGACCTGCGCTTTTTGAGGACCTGGA
 CCCGCGCCTGGTGACATGGGAGCCCTCTGAAACCGGAGGAGCACGCACACTTCCCTACTGCGGTGCAC
 CCAGGCCAGGCGCTCGTGAGGATGAGCATGTGCGCGCGCCAGCGGGCACCACCAGGCGGGTCGCTGCT
 TGCTGTGGCCTGCAAGGCGTGCAAGCGCAAGACCACCAACGCTGATCGCCGCAAGGCCGCCACCATGCG
 CGAGCGCCGCGCTGAGCAAAGTGAATGAGGCCCTTCGAGACGCTCAAGCGCTGCACGTCCAGCAACCCG
 AACCAGCGGCTACCCAAGGTGGAGATCCTGCGCAACGCCATCCGCTACATCGAAGGTCTGCAAGGCTCTGC
 TGCGCGACCAGGACGCCGCGCCCTGGCGCCGCTGCCTTCTACGCACCTGGACCCTGCCCCAGGCCG
 TGGCAGCGAGCACTACAGTGGCGACTCAGATGCATCCAGCCCGCTCCAAGTCTGATGGCATGATG
 GATTACAGCGCCCCCAAGCGGCCCGCGGAGGAGTGGCTACGACACCGCTACTACAGTGGGCGG
 CGCGGAGTCCAGGCCAGGAAGAGTGGCGTGTGTCGAGCCTCGACTGCCTGTCCAGCATAGTGGAGCG
 CATCTCCACAGACAGCCCGCTGCGCTGCGCTGCTTTTGGCAGATGCACCACAGAGTCGCTCCGGGT
 CCGCCAGAGGGGGCATCCCTAAGCGACACAGAACAGGGAACCCAGACCCCGTCTCCGACGCCGCCCTC
 AGTGTCTGCAGGCTCAAACCCAATGCCATTTATCAGGTGCTT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG225026 representing NM_010866
 Red=Cloning site Green=Tags(s)

MELLSPPLRDIDLTPDGSLCSFETADDFYDDPCFDSPDLRFFEDLDPRLVHMGALLKPEEHAHFPTAVH
 PGPGAREDEHVRAPSGHHQAGRLLWACKACKRKT TNADRRKAATMRERRRLSKVNEAFETLKRCTSSNP
 NQRLPKVEILRNAIRYIEGLQALLRDQDAAPPAAAAFYAPGPLPPGRGSEHYSGSDASSPRSNCSGMM
 DYSGPPSGPRRQNGYDTAYYSEAAARESRPGKSAAVSSLDC LSSI VERISTDSPAAPALLLADAPPESPPG
 PPEGASLSDTEQGTQTPSPDAAPQCPAGSNPNAIYQVL

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_010866

ORF Size: 954 bp

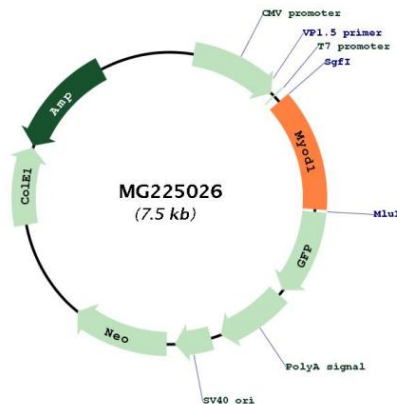
OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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:	<u>NM_010866.2</u> , <u>NP_034996.2</u>
RefSeq Size:	1854 bp
RefSeq ORF:	957 bp
Locus ID:	17927
UniProt ID:	<u>P10085</u>
Cytogenetics:	7 30.03 cM
Gene Summary:	Acts as a transcriptional activator that promotes transcription of muscle-specific target genes and plays a role in muscle differentiation (PubMed:16901893). Together with MYF5 and MYOG, co-occupies muscle-specific gene promoter core region during myogenesis. Induces fibroblasts to differentiate into myoblasts. Interacts with and is inhibited by the twist protein. This interaction probably involves the basic domains of both proteins (PubMed:21798092, PubMed:3175662).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG225026