

## Product datasheet for **SC125952**

### **MYOD1 (NM\_002478) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MYOD1 (NM_002478) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYOD1
Synonyms:	bHLHc1; MYF3; MYOD; MYODRIF; PUM
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_002478 edited  
 CACTTTGCTATCTACAGCTTGGGTTGGGCGAAGCCAGGACCGTGCCGCGCCACCGCCAGG  
 ATATGGAGCTACTGTCCGACCGCTCCGCGACGTAGACCTGACGGCCCCGACGGCTCTC  
 TCTGCTCTTTGCCACAACGGACGACTTCTATGACGACCCGTGTTTCGACTCCCCGGACC  
 TGCGCTTCTTCGAAGACCTGGACCCGCGCTGATGCACGTGGGCGCGCTCCTGAAACCCG  
 AAGAGCACTCGCACTTCCCCGCGCGGTGCACCCGGCCCCGGGCGCACGTGAGGACGAGC  
 ATGTGCGCGCCAGCCAGCGGGCACACCAGGCGGGCCGCTGCCTACTGTGGCCCTGCAAGG  
 CGTGCAAGCGCAAGACCACCAACGCGGACCGCCGCAAGGCCGCCACCATGCGCGAGCGGC  
 GCCGCTGAGCAAAGTAAATGAGGCCTTTGAGACTCAAGCGCTGCACGTGAGCAATC  
 CAAACCAGCGGTTGCCAAGGTGGAGATCCTGCGCAACGCCATCCGCTATATCGAGGGCC  
 TGCAGGCTCTGCTGCGGACAGGACGCGCGCCCCCTGGCGCCGAGCCGCTTCTATG  
 CGCCGGGCGCTGCCCGGGCCGCGGCGGCGAGCACTACAGCGGCGACTCCGACGCGT  
 CCAGCCCCGCTCCAAGTCTCCGACGGCATGATGGACTACAGCGGCCCCCGAGCGGGC  
 CCCGGCGCGGAAGTCTACGAAGGCGCTACTACAACGAGGCGCCAGCGAACCAGGC  
 CCGGGAAGAGTGGCGGCTGTGAGCCTAGACTGCCTGTCCAGCATCGTGGAGCGCATCT  
 CCACCGAGAGCCCTGCGCGCCCCGCTCTGCTGGCGGACGTGCTTCTGAGTCGCGCTC  
 CGCGCAGGCAAGAGGCTGCCGCCCCAGCGAGGGAGAGAGCAGCGGCGACCCACCCAGT  
 CACCGGACGCGCCCCGAGTGCCTGCGGGTGCGAACCCCAACCCGATATACCAGGTGC  
 TCTGAGGGGATGGTGGCCGCCACCCGCGGAGGGATGGTGCCTTAGGGTCCCTCGCGC  
 CCAAAAGATTGAACCTAAATGCCCCCTCCCAACAGCGCTTTAAAAGCGACTCTCTTGA  
 GGTAGGAGAGGCGGGAGAAGTGAAGTTCCGCCCGCCCCACAGGGCAAGGACACAGCG  
 CGGTTTTTCCACGCAGCACCTTCTCGAGACCCATTGCGATGGCCGCTCCGTGTTCT  
 CGGTGGGCCAGAGCTGAACCTTGAAGGGTAGGTTGAGTTTCTGCGCCCTCCCCATG  
 GGGTGAGACCTCGCAGACCTAAGCCCTGCCCGGGATGCACCGGTTATTTGGGGGGC  
 GTGAGACCAGTGCACCTCCGGTCCCAAATGTAGCAGGTGAACCGTAACCCACCCCAAC  
 CCGTTTCCCGTTGAGGACCACTTTTTGTAATACTTTTGAATCTATTCTGTAAATAAG  
 AGTTGCTTTGCCAGAGCAGGAGCCCTGGGGTGTATTTATCTCTGAGGCATGGTGTGTG  
 GTGCTACAGGGAATTTGTACGTTTATACCGCAGGCGGGCAGCCGCGGGCGCTCGCTCAG  
 GTGATCAAATAAAGGCGCTAATTTATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAAAAAAAAAAAAAAAAAAAAA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002478 unedited  
 NCCCCGTGNCATTTGTATACGACTCATATAGGCGGACCGCAATTCGCACGAGGCACTT  
 TGCTATCTACAGCTTGGGTTGGGCGAAGCCAGGACCGTGCCGCGCCACCGCCAGGATATG  
 GAGCTACTGTCCGACCGCTCCGCGACGTAGACCTGACGGCCCCGACGGCTCTCTCTGC  
 TCCTTTGCCACAACGGACGACTTCTATGACGACCCGTGTTTCGACTCCCCGGACCTGCGC  
 TTCTTCGAAGACCTGGACCCGCGCTGATGCACGTGGGCGCGCTCCTGAAACCCGAAGAG  
 CACTCGCACTTCCCCGCGCGGTGCACCCGGCCCCGGGCGCACGTGAGGACGAGCATGTG  
 CGCGCGCCAGCGGGCACACCAGGCGGGCCGCTGCCTACTGTGGCCCTGCAAGGCGTGC  
 AAGCGCAAGACCACCAACGCCGACCGCGCAAGGCCGCCACCATGCGCGAGCGGCGCCGC  
 CTGAGCAAAGTAAATGAGGCCTTTGAGACTCAAGCGCTGCACGTGAGCAATCCAAAC  
 CAGCGGTTGCCAAGGTGGAGATCCTGCGCAACGCCATCCGCTATATCGAGGGCTGCAG  
 GCTCTGCTGCGGACAGGACGCGCGCCCCCTGGCGCCGAGCCGCTTCTATGCGCCG  
 GGCCCGCTGCCCGGGCCGCGGCGGCGAGCACTACAGCGGCGACTCCGACGCGTCCAGC  
 CCGCGCTCCAAGTCTCCGACGGCATGATGGACTACAGCGGCCCCCGAGCGGCGCCCGG  
 CGGCGGAAGTCTACGAAGCGCTACTACAACGAGGCGCCAGCGAACCAGGCCCGGG  
 AAGAGTGCNCGGTGTCNAGCCTAGACTGGCTGTCCAGCATCGTGAACGCATCTCCACC  
 GA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_002478

<b>Insert Size:</b>	1800 bp
<b>OTI Disclaimer:</b>	<p>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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_002478.3</a> , <a href="#">NP_002469.2</a>
<b>RefSeq Size:</b>	1757 bp
<b>RefSeq ORF:</b>	963 bp
<b>Locus ID:</b>	4654
<b>UniProt ID:</b>	<a href="#">P15172</a>
<b>Cytogenetics:</b>	11p15.1
<b>Protein Families:</b>	Druggable Genome, Transcription Factors
<b>Gene Summary:</b>	This gene encodes a nuclear protein that belongs to the basic helix-loop-helix family of transcription factors and the myogenic factors subfamily. It regulates muscle cell differentiation by inducing cell cycle arrest, a prerequisite for myogenic initiation. The protein is also involved in muscle regeneration. It activates its own transcription which may stabilize commitment to myogenesis. [provided by RefSeq, Jul 2008]