

## Product datasheet for **RG229055**

### Myocardin (MYOCD) (NM\_001146312) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myocardin (MYOCD) (NM_001146312) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Myocardin
Synonyms:	MGBL; MYCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG229055 representing NM\_001146312  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGACACTCCTGGGTCTGAGCATTCTTGTCTGATTAGGAGCAAGTTCAGATCAGTTTTACAGTTAAGC  
 TTCAACAAGAAGGACCCAGGAACAACCTGGCTAACCAAGGCATAATACCACCACTGAAACGTCCAGCTGA  
 ATTCCATGAGCAAAGAAAACATTTGGATAGTGACAAGGCTAAAAATCCCTGAAGCGCAAAGCCAGAAAC  
 AGGTGCAACAGTGCCGACTTGGTTAATATGCACATACTCCAAGCTTCCACTGCAGAGAGGTCCATTCCAA  
 CTGCTCAGATGAAGCTGAAAAGAGCCGACTCGCCGATGATCTCAATGAAAAATTTGCTCTACGACCAGG  
 GCCACTGGAGCTGGTGGAAAAAACATTCTTCTGTGGATTCTGCTGTGAAAGAGGCCATAAAAGGTAAC  
 CAGGTGAGTTTCTCCAAATCCACGGATGCTTTTGCCTTTGAAGAGGACAGCAGCAGCGATGGGCTTTCTC  
 CGGATCAGACTCGAAGTGAAGACCCCAAACTCAGCGGGATCCCGCCAGACGCTAAAGCCTCAGATAC  
 CCCTTCGACAGGTTCTCTGGGGACAAACCAGGATCTTGTCTCTGGCTCAGAAAATGACAGAAATGACTCA  
 GCCTCACAGCCCAGCCACCATGATGCGGGGAAGCAGGGGCTTGGCCCCCAGCACCCCATAGCCG  
 TGCATGCTGTGTAAAGTCCAAATCCTTGGGTGACAGTAAGAACCGCCACAAAAAGCCAAAGACCCCAA  
 GCCAAAGGTGAAGAAGCTTAAATATCACCAGTACATTCCTCCAGACCAGAAGGCAGAGAAGTCCCTCCA  
 CCTATGGACTCAGCCTACGCTCGGCTGCTCCAGCAACAGCAGCTGTTCTGCAGCTCCAAATCCTCAGCC  
 AGCAGCAGCAGCAGCAGCAACACCGTTTCACTACCTAGGGATGCACCAAGCTCAGCTTAAGGAACCAAA  
 TGAACAGATGGTCAGAAATCCAACTCTTCTTCAACGCCACTGAGCAATACCCCTTGTCTCCTGTCAA  
 AACAGTTTTCTGACAAACTGGTGTCTTCTTCAAACCGCCACTCCCACCTAACCTGGATGATC  
 TGAAGTCTCTGAATTAAGACAACAGCTTCAATTCGGGGCTTGCCTGTGTCAGGCACCAAAACGGCTCT  
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 GTCACTTTTCTGTACACCCAACACGCTGCCAATTACAGTCTTCTTCTTCTACCAGTGCCCTGTCCA  
 ACGGCTTCTACCACTTTGGCAGCACAGCTCCAGCCCCCGATCTCCCCAGCCTCCTGTACCTGTCACT  
 CGCTGGTCCCTGCCGGACACTTCAATGATGCCTCCCCCTCCTTCGGCTGCACCCGTCACCCAGTCCAC  
 GTGTGCACGGAGAAAGTCTCATGAGCAGCCTGAATGGGGCTCTGTTCTTCTGAGCTGGATGGGCTGG  
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 AGAGCAGAGGCAGGTGGAGGAGCTGAGGATGCAGCTTCAAGCAGAAAAGGAATAACTGTTCCAGAGAAG  
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 AAGTACCTGTGAAAAGACAAAGCAGCAGCTCAGAGTGTCACCCACCGGCTTGTGAAGCTGCTCAACTCCA  
 GCCTCTTGAAATGCTCATTGTGTGGAGTCTCAGATCAAACCAATGTACTTTCTCCACATTTCTCAGC  
 CCCCAGTGTCCCTCAGCATTACCCGCTGGGGCTGTGAAAAGCCACAGCACATCAGTTTGCCCCCAT  
 CACCAACAACCCCTCACTTTCTGCCCTCATCTCCGGGGCCAGGGAGAAGGGCAGAGGCTCCTCGCC  
 CATCAGCAGCCAGGTGTGCACTGCACAGAACTCAGGAGCACACGATGGCCATCCTCCAAGCTTCTCTCC  
 CATTCTTCCAGCTCCACCCGCCCTTCTCTGGAGCCCAAGCAGACAGCAGTATGGTGCCGGGGAAACC  
 GTTTTCAATCCATCCCCAATTTTTCTAAGTCAAGTTCAGCAATTTAGAGGTAACACAGCCTCCATCC  
 TATGAAGATGCCGTAAGCAGCAAAATGACCCGGAGTCAAGAGATGGATGAACTCCTGGACGTGCTTATTG  
 AAAGCGGAGAAATGCCAGCAGACCTAGAGAGGATCACTCATGTCTTCAAAAAGTCCCAAAGATACCCAG  
 ATCTTCCCGAAGTCCAAGTGTCTCCTCACCAAGCCCTCGGCTTCTTTGAAACAAGCCTTCTCAGGCAGC  
 CAGATCCCCTTTGATCCCTATGCCACCGACAGTGTGAGCATCTTGAAGTCTTATTAATTTCCAGAGCC  
 CCCTAGGAAAGATGAGTGTGTCACCCTTCAAAAATGGGAGCGAAGAGCCTCACTTTGATGGGATAAT  
 GGATGGATTCTCTGGGAAGGCTGCAGAAGACCTTCAATGCACATGAGATCTTCCAGGCCCTCTCT  
 CCAATGCAGACACAGTTTTACCCTCTTCTGTGGACAGCAATGGGCTGCAGTTAAGCTTCACTGAATCTC  
 CCTGGGAAACCATGGAGTGGCTGGACCTCACTCCGCCAAATTCACACCAGGCTTTAGCGCCCTCACCAC  
 CAGCAGCCCAGCATCTCAACATCGATTTCTGGATGTCAGTCTCAATTTGAATTTCTCCATGGAC  
 CTTCACTTGCAGCAGTGG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >RG229055 representing NM\_001146312  
 Red=Cloning site Green=Tags(s)

MTLLGSEHSLLRISKFRSVLQLRLQQRRTQEQLANQGIIPPLKRPAEFHEQRKHLSDKAKNSLKRKARN  
 RCNSADLVNMHILQASTAERSIPTAQMKLKRARLADDLNEKIALRPGLELVEKNILPVDSAVKEAIKGN  
 QVSFSKSTDAFAFEEDSSSDGLSPDQTRSEDPQNSAGSPPDAKASDTPSTGSLGTNQDLASGSENRNDS  
 ASQPSHQSDAGKQGLGPPSTPIAVHAAVKSKSLGDSKNRHKPKDPKPKVKKLYHQYIPPDQKAEKSP  
 PMDSAYARLLQQQLFLQLQILSQQQQQQHRFSYLGMHQAQLKEPNEQMVARNPNSSTPLSNTPLSPVK  
 NSFSGQTGVSSFKPGPLPPNLDDLKVELRQQLRIRGLPVSGTKTALMDRLRPFQDCSGNPVNFQDIT  
 VTFVPTNTPNYPYQSSSSTSALSNFYHFGSTSSPPISSPASSDLVAGSLPDTFNDAASPSFGLHPSVH  
 VCTEESLMSSLNGGVSPELDGLDSEKDKMLVEKQKVINELTWKLQEQRQEELRMQLQKQRNNCSEK  
 KPLPFLAASIKQEEAVSSCPFASQVPVKRQSSSSECHPPACEAAQLQPLGNAHCVESSDQTNVLSSTFLS  
 PQCSQHSPLGAVKSPQHISLPPSPNPHFLPSSGAQGEHRVSSPISQVCTAQNNGAHGHPSPFSP  
 HSSSLHPPFSGAQADSSHGAGGNPCPKSPCVQKQKMAGLHSSDKVGPKFSIPSPTFSKSSSAISEVTQPPS  
 YEDAVKQMQMTRSQMDELDDVLIESGEMPADAREDHSCLEKQVVKIPRSSRSPTAVLTKPSASFEQASSGS  
 QIPFDPYATDSDEHLEVLNLSQSPGKMSDVTLLKIGSEEPHFDGIMDGFSGKAAEDLFNAHEILPGPLS  
 PMQTQFSPSSVDSNGLQLSFTESPWETMEWLDLTPNNTPGFSALTTSSPSIFNIDFLDVTDLNLSM  
 LHLQQW

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

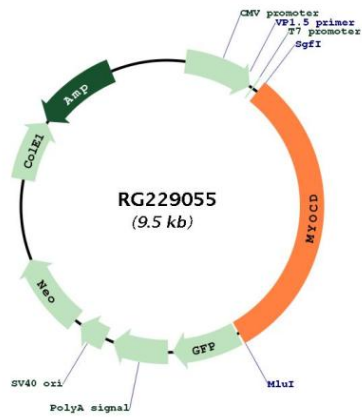


**ACCN:** NM\_001146312

**ORF Size:** 2958 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>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<u><a href="#">NM_001146312.1</a></u> , <u><a href="#">NP_001139784.1</a></u>
<b>RefSeq Size:</b>	6950 bp
<b>RefSeq ORF:</b>	2961 bp
<b>Locus ID:</b>	93649
<b>UniProt ID:</b>	<u><a href="#">Q8IZQ8</a></u>
<b>Cytogenetics:</b>	17p12
<b>Protein Families:</b>	Transcription Factors
<b>Gene Summary:</b>	This gene encodes a nuclear protein, which is expressed in heart, aorta, and in smooth muscle cell-containing tissues. It functions as a transcriptional co-activator of serum response factor (SRF) and modulates expression of cardiac and smooth muscle-specific SRF-target genes, and thus may play a crucial role in cardiogenesis and differentiation of the smooth muscle cell lineage. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Sep 2009]

Product images:



Circular map for RG229055