

Product datasheet for **RG228535**

Myocardin (MYOCD) (NM_001146313) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	Myocardin
Synonyms:	MYCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence: >RG228535 representing NM_001146313
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAGCTGAAAAGAGCCCGACTCGCCGATGATCTCAATGAAAAATTGCTCTACGACCAGGGCCACTGG
 AGCTGGTGGAAAAAATCTTCTCTGTGGATTCTGCTGTGAAAGAGGCCATAAAAGGTAACCAGGTGAG
 TTTCTCCAATCCACGGATGCTTTTGCCTTTGAAGAGGACAGCAGCAGCGATGGGCTTTCTCCGGATCAG
 ACTCGAAGTGAAGACCCCAAACTCAGCGGGATCCCCGCCAGACGCTAAAGCCTCAGATACCCCTTCGA
 CAGGTTCTCTGGGGACAAACCAGGATCTTGCTTCTGGCTCAGAAAAATGACAGAAATGACTCAGCCTCACA
 GCCCAGCCACCACTCAGATGCGGGGAAGCAGGGGCTTGGCCCCCAGCACCCCATAGCCGTGCATGCT
 GCTGTAAGTCCAATCCTTGGGTGACAGTAAGAACCGCCACAAAAAGCCCAAGGACCCCAAGCCAAAGG
 TGAAGAAGCTTAATATCACCAGTACATCCCCCAGACCAGAAGGCAGAGAAGTCCCTCCACCTATGGA
 CTCAGCCTACGCTCGGTGCTCCAGCAACAGCAGCTGTTCTGCAGCTCCAAATCCTCAGCCAGCAGCAG
 CAGCAGCAGCAACCCGATTCAGCTACCTAGGGATGCACCAAGCTCAGCTTAAGGAACCAATGAACAGA
 TGGTCAGAAATCCAATCTTCTTCAACGCCACTGAGCAATACCCCTTGTCTCCTGTCAAAAACAGTTT
 TTCTGGACAACTGGTGTCTCTTTTCAAACAGGCCACTCCCACCTAACCTGGATGATCTGAAGGTC
 TCTGAATTAAGACAACAGCTTCGAATTCGGGGCTTGCTGTGTGAGGCACCAAAACGGCTCTCATGGACC
 GGCTTCGACCTTCCAGGACTGCTCTGGCAACCCAGTGCCGAACCTTGGGGATATAACGACTGTCACTTT
 TCCTGTACACCCCAACAGCTGCCCAATTACAGTCTTCTCTTCTACCAGTGCCCTGTCCAACGGCTTC
 TACCACTTTGGCAGCACCAGCTCCAGCCCCCGATCTCCCCAGCCTCCTGACCTGTCACTCGTGGGT
 CCCTGCCGGACACCTTCAATGATGCTCCCCCTCCTTGGCCTGCACCCGTCCCAAGTCCAGTGTGCAC
 GGAGGAAAGTCTCATGAGCAGCTGAATGGGGCTCTGTTCTTCTGAGCTGGATGGGCTGGACTCCGAG
 AAGGACAAGATGCTGGTGGAGAAGCAGAAGGTGATCAATGAATCACTGGAACTCCAGCAAGAGCAGA
 GGCAGGTGGAGGAGCTGAGGATGCAGCTTCAGAAGCAGAAAAGGAATACTGTTCAAGAGAAGAAGCCGCT
 GCCTTTCTGGTGCCTCCATCAAGCAGGAAGAGGTGTCTCCAGCTGTCTTTGCATCCCAAGTACCT
 GTGAAAAGACAAAAGCAGCAGCTCAGAGTGTACCCACCGGCTTGTGAAGTGTCTCAACTCCAGCCTCTTG
 GAAATGCTCATTGTGTGGAGTCTCAGATCAAACCAATGTACTTTCTTCCACATTTCTCAGCCCCCAGTG
 TTCCCCTCAGCATTACCGCTGGGGCTGTGAAAAGCCACAGCACATCAGTTTGCCCCATCACCCAAC
 AACCTCCTTCTGCCCTCATCTCCGGGGCCAGGAGAAGGGCACAGGGTCTCCTCGCCCATCAGCA
 GCCAGGTGTGCACTGCACAGAACTCAGGAGCACACGATGGCCATCTCCAAGCTTCTCTCCCATCTTTC
 CAGCCTCCACCCGCCCTTCTCTGGAGCCCAAGCAGACAGCAGTATGGTGCCGGGGGAAACCTTGTCCC
 AAAAGCCCATGTGTACAGCAAAAGATGGCTGGTTTACACTCTTCTGATAAGGTGGGGCCAAAGTTTCAA
 TTCCATCCCCAACTTTTCTAAGTCAAGTTCAGCAATTTAGAGGTAACACAGCCTCCATCCTATGAAGA
 TGCCGTAAGCAGGTAACCATG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG228535 representing NM_001146313
 Red=Cloning site Green=Tags(s)

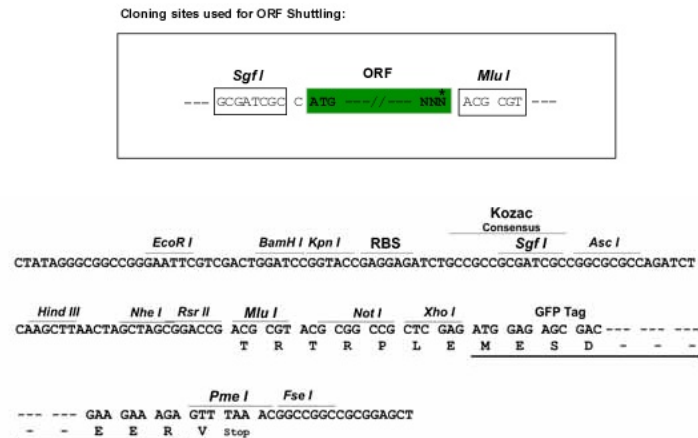
MKLKRARLADDLNEKIALRPGPLELVEKNILPVDSAVKEAIKGNQVSFSKSTDAFAFEEDSSDGLSPDQ
 TRSEDPQNSAGSPDAKASDTPSTGSLGTNQDLASGSENDNRNDASQPSHQSDAGKQGLGPPSTPIAVHA
 AVKSKSLGDSKNRHKPKDPKPKVKKLYHQYIPPDQKAESPPPMDSAYARLLQQQLFLQLQILSQQQ
 QQQQHRFSYLGMLHAQLKEPNEQMVRPNSSSTPLSNTPLSPVKNSFSGQTGVSSFPGPLPPNLDLKV
 SELRQQLRIRGLPVSGTKTALMDLRPFQDCSGNPVPNFGDITTVTFPVPNTLPNYQSSSSTALSNGF
 YHFGSTSSPPIPASSDLVAGSLPDTFNDASPSFGLHSPVHVCTEESLMSSLNNGSVPSSELDGLDSE
 KDKMLVEKQKVINELTWKLQQEQRQVEELRMQLQKQRNNCSEKKPLPFLAASIKQEEAVSSCPFASQVP
 VKRQSSSECHPPACEAAQLPLGNAHCVESSDQTNVLSSTFLSPQCSPQHSPLGAVKSPQHISLPPSPN
 NPHFLPSSSGAQGEHRVSSPISQVCTAQNSGAHDGHPPSPSPHSSSLHPPFSGAQADSSHGAGGNPCP
 KSPCVQQKMAGLHSSDKVGPKEFSIPSPTFSKSSSAISEVTQPPSYEDAVKQVTM

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1974_c07.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001146313

ORF Size: 2052 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.

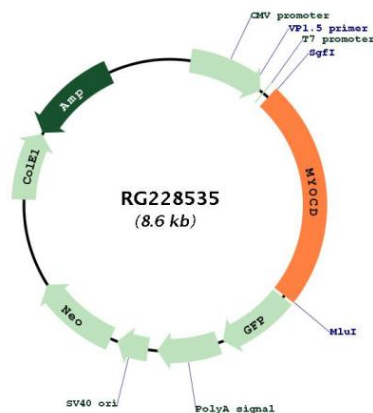
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in 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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_001146313.1, NP_001139785.1</u>
RefSeq Size:	2344 bp
RefSeq ORF:	2054 bp
Locus ID:	93649
Cytogenetics:	17p12
Protein Families:	Transcription Factors
Gene Summary:	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 RG228535