

Product datasheet for **SC327690**

Myocardin (MYOCD) (NM_001146312) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myocardin (MYOCD) (NM_001146312) Human Untagged Clone
Tag:	Tag Free
Symbol:	Myocardin
Synonyms:	MGBL; MYCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001146312, the custom clone sequence may differ by one or more nucleotides

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ATGACACTCTGGGGTCTGAGCATTCTTGTCTGATTAGGAGCAAGTTCAGATCAGTTTTACAGTTAAGAC
TTCACAAAGAAGGACCCAGGAACAACCTGGCTAACCAAGGCATAATACCACCCTGAAACGTCCAGCTGA
ATTCCATGAGCAAAGAAAACATTTGGATAGTGACAAGGCTAAAAATCCCTGAAGCGCAAAGCCAGAAAC
AGGTGCAACAGTCCGACTTGGTTAATATGCACATACTCCAAGCTTCCACTGCAGAGAGGTCCATCCAA
CTGCTCAGATGAAGCTGAAAAGAGCCGACTCGCCGATGATCTCAATGAAAAAATTGCTCTACGACCAGG
GCCACTGGAGCTGGTGGAAAAAACATTCTTCTGTGGATTCTGTGTGAAAAGAGGCCATAAAAGGTAAC
CAGGTGAGTTTCTCCAAATCCACGGATGCTTTTGCCTTTGAAGAGGACAGCAGCAGCGATGGGCTTCTC
CGGATCAGACTCGAAGTGAAGACCCCCAAAACCTCAGCGGGATCCCCGCCAGACGCTAAAGCCTCAGATAC
CCCTTCGACAGGTTCTCTGGGACAAACCAGGATCTTGTCTTGGCTCAGAAAATGACAGAAATGACTCA
GCCTCACAGCCCAGCCACCAGTCAGATGCGGGGAAGCAGGGGCTTGGCCCCCAGCACCCCATAGCCG
TGCATGCTGCTGTAAGTCCAAATCCTTGGGTGACAGTAAGAACCGCCACAAAAAGCCAAAGGACCCCAA
GCCAAAGGTGAAGAAGCTTAAATATCACCAGTACATTCCCCAGACCAGAAGGCAGAGAAGTCCCTCCCA
CCTATGGACTCAGCCTACGCTCGGCTGCTCCAGCAACAGCAGCTGTTCTGCAGCTCCAAATCCTCAGCC
AGCAGCAGCAGCAGCAGCAACACCGATTAGCTACCTAGGGATGCACCAAGCTCAGCTTAAGGAACCAAA
TGAACAGATGGTCAGAAATCCAACTCTTCTTCAACGCCACTGAGCAATACCCCTTGTCTCCTGTCAAA
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GTCACTTTTCTGTGCACCCCAACAGCTGCCCAATTACCAGTCTTCTCTTCTACCAGTGCCCTGTCCA
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CGCTGGTCCCTGCCGGACACTTCAATGATGCCTCCCCCTCCTTCGGCTGCACCCGTCGCCAGTCCAC
GTGTGCACGGAGAAAGTCTCATGAGCAGCCTGAATGGGGCTCTGTTCTTCTGAGCTGGATGGGCTGG
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AAGCCGCTGCCTTCTGGCTGCCTCCATCAAGCAGGAAGAGGCTGTCTCCAGCTGTCTTTGCATCCC
AAGTACCTGTGAAAAGACAAAGCAGCAGCTCAGAGTGCACCCACCGCTTGTGAAGCTGTCAACTCCA
GCCTCTTGAAAATGCTCATTGTGTGGAGTCTCAGATCAAACCAATGTACTTTCTCCACATTTCTCAGC
CCCCAGTGTCCCTCAGCATTACCCGCTGGGGCTGTGAAAAGCCACAGCACATCAGTTTGCSSCCAT
CACCCAACAACCCCTCACTTTCTGCCCTCATCTCCGGGGCCAGGGAGAAGGGCAGAGGCTCCTCGCC
CATCAGCAGCCAGGTGTGCACTGCACAGAACTCAGGAGCACACGATGGCCATCCTCCAAGCTTCTCTCC
CATTCTCCAGCCTCCACCCGCCCTTCTCTGGAGCCCAAGCAGACAGCAGTATGGTGCCGGGGAAACC
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GTTTTCAATCCATCCCCAATTTTTCTAAGTCAAGTTCAGCAATTTAGAGGTAACACAGCCTCCATCC
TATGAAGATGCCGTAAGCAGCAATGACCCGGAGTCAGCAGATGGATGAACTCCTGGACGTGCTTATTG
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CAGATCCCTTTGATCCCTATGCCACCGACAGTATGAGCATCTTGAAGTCTTATTAATTTCCAGAGCC
CCCTAGGAAAGATGAGTATGTCACCCTCTAAAAATTGGGAGCGAAGAGCCTCACTTTGATGGGATAAT
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CCAATGCAGACACAGTTTTTACCCTCTTCTGTGGACAGCAATGGGCTGCAGTTAAGCTTCACTGAATCTC
CCTGGGAAACCATGGAGTGGCTGGACCTCACTCCGCAAAATCCACACCAGGCTTTAGCGCCCTCACCC
CAGCAGCCCCAGCATCTCAACATCGATTTCTGGATGTCAGTATCTCAATTTGAATTTCTCCATGGAC
CTTCACTTGCAGCAGTGGTAG
    
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Restriction Sites: Please inquire
ACCN: NM_001146312

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 TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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: [NM_001146312.1](#), [NP_001139784.1](#)

RefSeq Size: 6950 bp

RefSeq ORF: 2961 bp

Locus ID: 93649

UniProt ID: [Q8IZQ8](#)

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.