

## Product datasheet for **SC327170**

### Myocardin (MYOCD) (NM\_001146313) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Myocardin (MYOCD) (NM_001146313) Human Untagged Clone
Tag:	Tag Free
Symbol:	MYOCD
Synonyms:	MYCD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

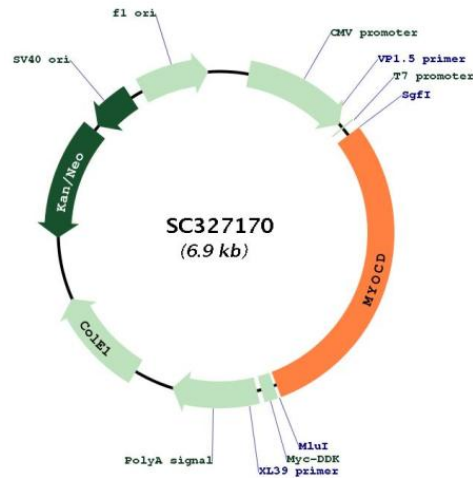


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Fully Sequenced ORF: >SC327170 representing NM\_001146313.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAAGCTGAAAAAGAGCCGACTCGCCGATGATCTCAATGAAAAAATTGCTCTACGACCAGGGCCACTG
GAGCTGGTGAAAAAACATTCTTCTGTGGATTCTGCTGTGAAAGAGGCCATAAAAGGTAACCAGGTG
AGTTTCTCCAAATCCACGGATGCTTTTGCCTTTGAAGAGGACAGCAGCAGCGATGGGCTTTCTCCGGAT
CAGACTCGAAGTGAAGACCCCCAAAACCTCAGCGGGATCCCGCCAGACGCTAAAGCCTCAGATACCCT
TCGACAGGTTCTCTGGGGACAAACCAGGATCTTCTGCTTCTGGCTCAGAAAAATGACAGAAATGACTCAGCC
TCACAGCCAGCCACCAGTCAGATGCGGGGAAGCAGGGGCTTGGCCCCCAGCACCCCCATAGCCGTG
CATGCTGCTGTAAGTCCAAATCCTTGGGTGACAGTAAGAACCGCCACAAAAAGCCCAAGACCCCAAG
CCAAAGGTGAAGAAGCTTAAATATCACCAGTACATTCCCCAGACCAGAAGGCAGAGAAGTCCCCTCCA
CCTATGGACTCAGCTACGCTCGGCTGCTCCAGCAACAGCAGCTGTTCTGCAGCTCCAAATCCTCAGC
CAGCAGCAGCAGCAGCAACACCGATTACGCTACCTAGGGATGCACCAAGCTCAGCTTAAGGAACCA
AATGAACAGATGGTCAGAAATCCAAACTCTTCTCAACGCCACTGAGCAATACCCCTTGTCTCCTGTC
AAAAACAGTTTTTCTGGCAAACTGGTGTCTCTTCTTCAAACAGGCCACTCCCACCTAACCTGGAT
GATCTGAAGGTCTCTGAATTAAGACAACAGCTTGAATTCGGGGCTTGCCTGTGTGAGGCACAAAAACG
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ACGACTGTCACTTTTCTGTACACCCAACACGCTGCCAATTACCAGTCTTCTCTTCTACCAGTGCC
CTGTCCAACGGCTTCTACCACTTGGCAGCACCAGCTCCAGCCCCCGATCTCCCAGCCTCCTCTGAC
CTGTGAGTGCCTGGTCCCTGCCGACACCTTCAATGATGCCTCCCCCTCCTTGGCCTGCACCCGTCC
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AAACTCCAGCAAGAGCAGAGGCAGGTGGAGGAGCTGAGGATGCAGCTTCAAGAGCAGAAAAGGAATAAC
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CCTTTTGCATCCCAAGTACCTGTGAAAAGACAAAGCAGCAGCTCAGAGTGTACCCACCGCTTGTGAA
GCTGCTCAACTCCAGCCTTGGAAATGCTCATTGTGTGGAGTCTCAGATCAAACCAATGTACTTTCT
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ATCAGTTTGCCCCATCACCAACAACCCCTCACTTCTGCCCTCATCCTCCGGGGCCAGGGAGAAGGG
CACAGGTCTCCTCGCCATCAGCAGCCAGGTGTGCACTGCACAGAACTCAGGAGCACACGATGGCCAT
CCTCCAAGCTTCTCTCCCATCTTCCAGCCTCCACCCGCCCTTCTCTGGAGCCCAAGCAGACAGCAGT
CATGGTGCCTGGGGAAACCCCTTGTCCAAAAGCCCATGTGTACAGCAAAAGATGGCTGGTTTACTCT
TCTGATAAGGTGGGGCCAAAGTTTTCAATTCATCCCCAACTTTTTCTAAGTCAAGTTTACGCAATTTCA
GAGGTAACACAGCCTCCATCCTATGAAGATGCCGTAAGCAGGTAACCATGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001146313

**Insert Size:** 2055 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](mailto: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\\_001146313.1](#)

**RefSeq Size:** 2344 bp

**RefSeq ORF:** 2055 bp

**Locus ID:** 93649

**Cytogenetics:** 17p12

**Protein Families:** Transcription Factors

**MW:** 73.2 kDa

**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 (3) differs in the 5' UTR, uses a downstream start codon, and contains an alternate segment at the 3' end compared to variant 1, which causes a frame-shift. This results in a shorter isoform (3) with a distinct C-terminus compared to isoform 1.