

Product datasheet for **RN202749**

Myocd (NM_182667) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myocd (NM_182667) Rat 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: >RN202749 representing NM_182667
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACACTCCTGGGGTCTGAACACTCTTTGCTGATTAGAAGGAAGTCCGATCAGTCTTACAGTTACGGC
 TTCAACAGAGAAGGACCCAGGAGCAGCTGGCTAACCAAGGCTTAATACCACCCTGAAAAGTCCAAGTGA
 GTTCCATGACCCGAGGAAAAACTGGATAGTGCCAAGACTGAAGACTCTCTGAGGCGCAAGGTCAGAAAC
 AGATCGGACCGTGCCAGCCTGGTTAATATGCACATTCTCCAAGCCTCCACGGCAGAAAGATCCATTCCAA
 CTGCTCAGATGAAGCTGAAGAGAGCCCGCCTTGACAGATGACCTCAACGAGAAGATTGCTCTCGCCAGG
 GCCCTTGGAACTGGTGGAGAAGAACATTCTGCCTATGGATTCTCCGTGAAAGAGGCTATAAAAGTACT
 GAGGTGAGCCTCTCAAAGCAGCAGATGCATTTGCCTTTGAAGATGACAGCAGCAGGGATGGGCTTTCCC
 CAGATCAGGCTCGGAGCGAGGATCCCAGGGCTCTGGAGGATCAACCCAGACATCAAATCCACTGAGGC
 TCCTCTGGCTGGCCCTCTGGACACAATCCAGGATCTCACTCCTGGCTCAGAAAGTGACAAGAACGATACA
 GCCTCCAGCTGAGCAACCAAGTCAGACTCTGGGAAGCAGGTGCTTGGCCCTCTCAGCACCCCGATCCCTG
 TGCACACTGCGGTAAAGTCCAAGTCTTTGGGTGATAGTAAGAACCGCCACAAAAAGCCAAAGACCCCAA
 ACCAAAGGTGAAGAAGCTCAAATACCACAGTACATCCCCCGGACCAGAAGGCAGAGAAATCCCCTCCC
 CCCATGGACTCTGCCTATGCTCGGCTGCTTACGCAACAGCAGCTATTCTGCAGCTACAGATCCTCAGCC
 AGCAGCAACAGCAGCAGCAACAGCAGCAACAGCAGCAGCAACAGCAGCAACAGCAACGGTTCAGCTA
 CCCTGGGATGCACCAAGCACACCTCAAAGAGCCAAATGAACAGATGACCAGAAATCCGAATTTCTCTCA
 ACACCCTGAACAATACCCCGCTGTCCCCTGTCAAAAAAGCCTTTCTGGACAACTGGTGTTCCTCTC
 TCAAACAGGCCCTTCCACCAAACTGGATGATCTCAAGGTGTCAGAGTTAAGACAACAGCTTCGAAT
 CCGGGGCTTGCCAGTGTGGGACCAAGACAGCACTGGTGGACCGGCTTCGACCCTTCCAGGATTGTGCT
 GGCAACCTGTGCCAACTTTGGGGACATCACAACCTGTACCTTTCTGTACGCCCAACACCTTGCCCA
 GTTATCAGTCTCCCATCAGGCTTCTACCCTTTGGCAGCACAAGCTCCAGCCCGCCATCTCCCCCGC
 CTCATCTGACTTGTCTGCTGCAGGGTCCCTGCCAGACACCTTACCAGTGCCTGCTGCTGCTGCTGCTG
 CATGCATCGCCGGTGCCCGCTGTACGGATGAGAGTCTGCTGAGCAGCCTGAATGGGGGCTCGGGCCCT
 CCGAGCCTGACGGGCTAGACTCTGAGAAGGACAAGATGCTGGTAGAGAAGCAAAGGTGATCAACCAGCT
 CACCTGGAAGCTCGGCAAGAGCAGCGGAGGTGGAGGAGCTGAGAATGCAACTGCAGAAGCAGAAGAGC
 GGCTGCAATGACCAGAAGCCACTGCCCTTCTTGGCCACCACCATCAAGCAGGAAGATGTCTTAGCTGTC
 CCTTCGACGCCAGCAGGCATCTGGGAAGGACAGGGCCACAGCTCCGACAGTCCCCTCCGGCCTGTGA
 GACTGCTCAGTCTGCCTCACTGTGTGGAGTCTCAGGTCAAACCCATGTACTCTCTCCACATTTCTC
 AGCCCCAGTGCTCCCCTCAGCACTCCCCCTGGGGACCTGAAGAGCCCGCAACACATCAGCCTGCCCC
 CATCGCTAACAACCACTTCTCCTGGCTTCTCCTCTGGGGCTCAGAGAGAGAACCATGGGGTGTCTTC
 ACCCAACAGCAGCAAGGGTGTGCACAGATGACTGGTTTACAATCTTCTGACAAGGTGGGGCCAACGTTT
 TCAATTCATCCCAACTTTTCTAAGTCGAGTCCAACAGTTCGGAGATAACCCAGCCCCATCCTACG
 AAGATGCAGTGAACAGCAAATGACTCGGAGTCAGCAGATGGATGAACTCCTGGATGTCTCATTGAAAG
 TGGAGAAATGCCAGCGGATGCCAGGGAAGATCATTATGTTCAAAAAATCCAAAGATACCTGGGTCC
 TCCTGCAGCCCAACCACCATCTCCCAAGTCTCGGCTTCTTTGAACAGGCATCTTCGGGAGGCCAGA
 TCTCCTTCGATCACTATGCCACCGACAGTGAAGAACACCTGGAAGTCTTATTGAATTCTCACAGCCCAT
 TGGGAAGGTGAGCGATGTTACCCTCCTCAAATCGGAAGCGAGGAGCCTCCTTTTGATGGGATCATGGAT
 GGCTTCCAGGGAAGGCTGCGGAAGATCTTTCAGTGCTCATGAGCTCTTGCCTGGGCCGCTCTCCCTA
 TGCATACACAGTTGTACCTCCTCTGTGGACAGCAGTGGTCTGCAGCTGAGCTTACGGAAATCTCCTTG
 GGAAACAATGGAATGGCTGGACCTCACTCCACCTAGTTCCACACCAGGCTTCAGCAACCTCACCTCCAGC
 GGGCCAGCATTTTCAACATCGATTTTCTGGATGTCACGGATCTCAATTTGAATTCCTATGGACCTCC
 ACTTACAGCAGTGG**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN:	NM_182667
Insert Size:	2817 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none">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_182667.2 , NP_872608.1
RefSeq Size:	4952 bp
RefSeq ORF:	2817 bp
Locus ID:	246297
UniProt ID:	Q8R5I7
Cytogenetics:	10q24
Gene Summary:	Smooth muscle cells (SM) and cardiac muscle cells-specific transcriptional factor which uses the canonical single or multiple CARG boxes DNA sequence. Acts as a cofactor of serum response factor (SRF) with the potential to modulate SRF-target genes (By similarity). Plays a crucial role in cardiogenesis and differentiation of the smooth muscle cell lineage (myogenesis) (By similarity).[UniProtKB/Swiss-Prot Function]