

Product datasheet for **RR202749**

Myocd (NM_182667) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myocd (NM_182667) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Myocd
Synonyms:	Mycd
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR202749 representing NM_182667
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACACTCCTGGGGTCTGAACACTCTTTGCTGATTAGAAGGAAGTTCGGATCAGTCTTACAGTTACGGC
 TTCAACAGAGAAGGACCCAGGAGCAGCTGGCTAACCAAGGCTTAATACCACCCCTGAAAAGTCCAAGTGA
 GTTCCATGACCCGAGGAAAAACTGGATAGTGCCAAGACTGAAGACTCTCTGAGGCGCAAGGTCAGAAAC
 AGATCGGACCGTGCCAGCCTGGTTAATATGCACATTCTCCAAGCCTCCACGGCAGAAAGATCCATTCCAA
 CTGCTCAGATGAAGCTGAAGAGAGCCCGCCTTGACAGATGACCTCAACGAGAAGATTGCTCTCGCCAGG
 GCCCTTGGAACTGGTGGAGAAGAACATTCTGCCTATGGATTCTTCCGTGAAAGAGGCTATAAAAGTACT
 GAGGTGAGCCTCTCAAAGCAGCAGATGCATTTGCCTTTGAAGATGACAGCAGCAGGGATGGGCTTTCCC
 CAGATCAGGCTCGGAGCGAGGATCCCAGGGCTCTGGAGGATCAACCCAGACATCAAATCCACTGAGGC
 TCCTCTGGCTGGCCCTCTGGACACAATCCAGGATCTCACTCCTGGCTCAGAAAGTGACAAGAACGATACA
 GCCTCCAGCTGAGCAACCAAGTCAGACTCTGGGAAGCAGGTGCTTGGCCCTCTCAGCACCCCGATCCCTG
 TGCACACTGCGGTAAAGTCCAAGTCTTTGGGTGATAGTAAGAACCGCCACAAAAAGCCAAAGACCCCAA
 ACCAAAGGTGAAGAAGCTCAAATACCACAGTACATCCCCCGGACCAGAAGGCAGAGAAATCCCCTCCC
 CCCATGGACTCTGCCTATGCTCGGCTGCTTACGCAACAGCAGCTATTCTGCAGCTACAGATCCTCAGCC
 AGCAGCAACAGCAGCAGCAACAGCAGCAACAGCAGCAGCAACAGCAGCAACAGCAACGGTTCAGCTA
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 ACACCAGTGAACAATACCCCGCTGTCCCCTGTCAAAAAAGCCTTTCTGGACAACTGGTGTTCCTCTC
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 CCTTCGACGCCAGCAGGCATCTGGGAAGGACAGGGCCACAGCTCCGACAGTCCCCTCCGGCCTGTGA
 GACTGCTCAGTCTGCCTCACTGTGTGGAGTCTCAGGTCAAACCCATGTACTCTCTCCACATTTCTC
 AGCCCCAGTGTCCCCTCAGCACTCCCCCTGGGGACCTGAAGAGCCCGCAACACATCAGCCTGCCCC
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 TCCTGCAGCCCAACCACCATCTCCCAAGTCTCGGCTTCTTTGAACAGGCATCTTCGGGAGGCCAGA
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 TGGGAAGGTGAGCGATGTTACCCTCCTCAAATCGGAAGCGAGGAGCCTCCTTTTGTGGATCATGGAT
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 GGAAACAATGGAATGGCTGGACCTCACTCCACCTAGTTCCACACCAGGCTTACGCAACCTCACCTCCAGC
 GGGCCAGCATTTTCAACATCGATTTTCTGGATGTCACGGATCTCAATTTGAATTCCTATGGACCTCC
 ACTTACAGCAGTGG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR202749 representing NM_182667
 Red=Cloning site Green=Tags(s)

MTLLGSEHSLIIRRFKFRSVLQLRLQQRRTQEQLANQGLIPPLKSPTEFHDPKRLDSAKTEDSLRRKVRN
 RSDRASLVNMHILQASTAERSIPTAQMKLKRARLADDLNEKIALRPGLELVEKNILPMDSSVKEAIKGT
 EVSLSKAADAFEDDSSRDGLSPDQARSED PQSGGGSTPDIKSTEAPLAGPLDTIQDLTPGSESDKNDT
 ASQLSNQSDSGKQVLGPLSTPIPVHTAVKSKSLGDSKNRHKPKPKPKVKKLYHQYIPPDQKAEKSP
 PMDSAYARLLQQQLFLQLQILSQQQQQQQQQQQQQQQQQQRF SYPGMHQAHLKEPNEQMRNPSSS
 TPLNNTPLSPVKNSLSGQTGVSSLKPGPLPPNLDLKVSELRQQLRIRGLPVSGTKTALVDRLRPFQDCA
 GNPVVPNGDITTVTFVTPNTLPSYQSSPSGFYHFGSTSSSPPISPASSDL SAAGSLPDTFTDASPGFGL
 HASPVPACTDESSLNNGSGPSEPDGLDSEKDKMLVEKQKVINQLTWKLRQEQRQVEELRMQLKQKS
 GCNDQKPLPFLATTIKQEDVSSCPFAAQASGKGQGHSSDPPPACETAQLLPHCVESGQTHVLSSTFL
 SPQCSPQHSPGLTKSPQHSILPPSPNNHYFLASSGAQRENHGVSPPNSQGAQMTGLQSSDKVGPTF
 SIPSPFPKSSPTVPEITQPPSYEDAVKQMQMTRSQQMDELDDVLI ES GEMPADAREDHSLCKIPKIPGS
 SCSPPTILPKSSASFEQASSGGQISFDHYATDSEEHLEVLNNSHSPIGKVSVDVTLKIGSEPPFDGIMD
 GFPGKAAEDLFSHELLPGPLSPMHTQLSPPSVDSSGLQLSFTESPWETMEWLDLTPPSSTPGFSLNTSS
 GPSIFNIDFLDVTDLNLSNPMDLHLQQW

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

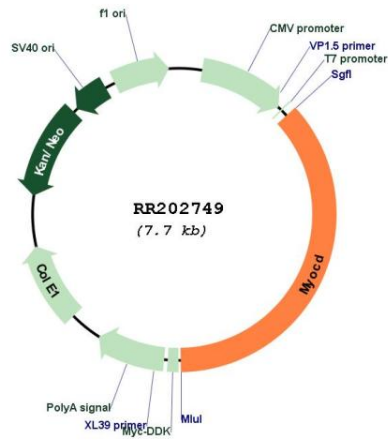


ACCN: NM_182667

ORF Size: 2814 bp

OTI Disclaimer:	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:	<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
MW:	101.9 kDa
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]

Product images:



Circular map for RR202749