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Product datasheet for MC222964

Myocd (NM_145136) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Myocd (NM_145136) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Myocd
Synonyms:	BSAC2A; Srfcp
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

Fully Sequenced ORF:

>MC222964 representing NM_145136
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGACACTCCTGGGGTCTGAACACTCTTTGCTGATTAGAAGGAAGTTCCGATCAGTCTTACAGTTACGGC
TTCAACAGAGAAGGACCCAGGAGCAGCTGGCTAACCAAGGCTTAATACCGCCACTGAAAGGTCCAACTGA
ATTCCATGACCCGAGAAAACAATTGGATAGTGCCAAGACTGAAGATTCCCTGAGGCGCAAGGGCAGAAAC
AGGTCCGACCGTGCCAGCCTGGTTACTATGCACATTCTCCAAGCCTCCACGGCAGAAAGGTCCATTCCAA
CTGCTCAGATGAAGCTCAAAAGAGCCCGCCTTGCAGATGACCTCAATGAGAAGATCGCTCTCCGCCCAGG
GCCCTTGGAACTGGTGGAGAAGAACATTCTGCCGATGGATTCTTCCGTGAAAGAGGCTATAAAAGGTACT
GAGGTGAGCCTCTCCAAGGCAGCAGATGCATTCGCCTTTGAGGATGACAGCAGTAGAGATGGGCTCTCTC
CAGATCAGGCTAGGAGCGAGGACCCCCAGGGCTCTACAGGATCCACCCCAGACATCAAATCCACTGAGGC
TCCTCTGGACACAATCCAGGATCTCACTCCTGGCTCAGAAAGTGACAAGAATGATGCAGCCTCCCAGCCA
GGCAACCAGTCAGACCCTGGGAAGCAGGTTCTCGGCCCCCTCAGCACCCCGATTCCTGTGCACACTGCTG
TAAAGTCCAAGTCTTTGGGTGACAGTAAGAACCGCCACAAAAAGCCCAAAGACCCCAAACCAAAGGTGAA
GAAGCTCAAATACCATCAGTACATCCCCCCAGACCAGAAGGCAGAGAAGTCTCCCCCACCCATGGACTCT
GCCTATGCCCGGCTGCTCCAGCAACAGCAGCTATTCCTGCAGCTACAGATCCTCAGCCAGCAGCAGCAAC
AGCAGCAGCAACAGCAGCAGCAGCAACAGCAGCAGCAGCAGCAGCAGCAGCGGTTCAGCTACCCTGGGAT
GCACCAAACACACCTCAAAGAACCAAATGAACAGATGGCCAGAAATCCGAATCCTTCTTCAACACCACTG
AGCAATACCCCTCTATCCCCTGTCAAAAATAGCATTTCTGGACAAACTGGTGTTTCTTCTCTCAAACCAG
GCCCCCTCCCACCCAACCTGGATGATCTCAAGGTGTCAGAGTTAAGACAACAGCTTCGAATCCGGGGCTT
GCCAGTGTCAGGCACCAAGACAGCGCTGGTGGACCGGCTTCGTCCCTTCCAGGATTGTGCTGGCAACCCT
GTGCCCAACTTTGGGGACATCACAACTGTCACCTTTCCTGTCACGCCCAACACCTTGCCCAGTTATCAGT
CCTCCCCGACAGGCTTCTACCACTTTGGCAGCACAAGCTCCAGCCCACCCATCTCCCCCGCCTCATCTGA
CTTGTCCGCTGCAGGGTCCCTGCCAGACACCTTCACCGATGCGTCACCTGGCTTCGGCCTGCACGCATCT

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CCGGTGCCCGCCTGCACGGACGAGAGTCTGCTGAGCAGCCTGAATGGGGGCTCGGGCCCCTCCGAGCCTG
ATGGGCTAGACTCTGAGAAGGACAAGATGCTGGTGGAGAAGCAGAAAGTGATCAACCAGCTCACCTGGAA
GCTGCGGCAAGAGCAGCGGCAGGTGGAAGAGCTGAGAATGCAACTGCAGAAGCAGAAGAGCAGCTGCAGC
GACCAGAAGCCACTGCCCTTCTTGGCCACCACCATCAAACAGGAAGATGTCTCCAGCTGCCCCTTCGCAC
CCCAGCAGGCGTCTGGGAAGGGACAGGGCCACAGCTCTGACAGTCCCCCTCCGGCTTGTGAGACGGCTCA
GCTGCTGCCTCACTGTGTGGAGTCCTCAGGTCAAACCCATGTACTCTCGTCCACGTTTCTCAGCCCCCAG
TGCTCCCCTCAGCACTCGCCCCTGGGGGGCCTGAAGAGCCCGCAGCACATCAGCCTGCCTCCATCACCCA
ACAACCATTACTTCCTGGCTTCCTCTTCGGGAGCTCAGAGAGAGAACCATGGGGTCTCTTCACCCAGCAG
CAGCCAAGGGTGCGCACAGAACTCAGGGGCACACGAAGGCCATTCTTCTAGCTTCTCTTCCCCAGCTTCC
AGCCTCCATCAGCCTTTCTCTGGCACCCAAGCAGACAGCAGTCACAGTGCTGGGCTCAACCCTTGTCCCA
AAAGCCCAAGTATTCATCCAAAGATGACTGGTTTACAATCTTCTGACAAGGTGGGGCCAACGTTTTCAAT
TCCATCCCCAACTTTTTCTAAGTCAAGTTCAGCAGTTTCAGATATCACCCAGCCCCCATCCTATGAAGAT
GCAGTGAAGCAGCAAATGACTCGGAGTCAGCAGATGGACGAACTCCTGGATGTCCTCATTGAAAGTGGAG
AAATGCCAGCCGATGCCAGGGAAGATCATTCATGTCTTCAGAAAATTCCAAAGATCCCTGGGTCCTCCTG
CAGCCCAACTGCCATCCCCCCGAAGCCCTCGGCTTCCTTTGAGCAGGCATCTTCGGGAGGCCAGATGGCC
TTCGATCACTACGCCAACGACAGTGACGAACACCTGGAAGTCTTATTGAATTCTCACAGCCCCATCGGAA
AGGTGAGCGATGTTACCCTCCTCAAAATCGGAAGCGAGGAGCCTCCTTTTGACAGCATCATGGATGGCTT
CCCAGGGAAGGCTGCGGAAGATCTCTTCAGTGCTCACGAGCTCTTGCCTGGGCCCCTCTCCCCGATGCAT
GCACAGTTGTCACCTCCTTCTGTGGACAGCAGTGGTCTGCAGCTGAGCTTCACGGAATCTCCTTGGGAAA
CAATGGAATGGCTGGACCTCACTCCACCTAGTTCCACGCCAGGCTTCAGCAACCTTACCTCCAGTGGGCC
CAGCATTTTCAACATCGATTTTCTGGATGTTACAGATCTTAATCTGAATTCCCCTATGGATCTCCACTTA
CAGCAGTGGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_145136

Insert Size: 2952 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

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_145136.4, NP_660118.3
RefSeq Size:	5127 bp
RefSeq ORF:	2952 bp
Locus ID:	214384
UniProt ID:	Q8VIM5
Cytogenetics:	11 B3
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. Plays a crucial role in cardiogenesis and differentiation of the smooth muscle cell lineage (myogenesis). Isoform 1 mediates the cardiac transcription factor MEF2C-dependent transcription. Isoform 1 and isoform 3 are more active than isoform 2 and isoform 4 in stimulating cardiac muscle promoters.[UniProtKB/Swiss-Prot Function]