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# Product datasheet for MC222713

## Myocd (NM_146386) Mouse Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | Myocd (NM_146386) 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:**

>MC222713 representing NM_146386
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
CCGGTGCCCGCCTGCACGGACGAGAGTCTGCTGAGCAGCCTGAATGGGGGCTCGGGCCCCTCCGAGCCTG
ATGGGCTAGACTCTGAGAAGGACAAGATGCTGGTGGAGAAGCAGAAAGTGATCAACCAGCTCACCTGGAA
GCTGCGGCAAGAGCAGCGGCAGGTGGAAGAGCTGAGAATGCAACTGCAGAAGCAGAAGAGCAGCTGCAGC
GACCAGAAGCCACTGCCCTTCTTGGCCACCACCATCAAACAGGAAGATGTCTCCAGCTGCCCCTTCGCAC
CCCAGCAGGCGTCTGGGAAGGGACAGGGCCACAGCTCTGACAGTCCCCCTCCGGCTTGTGAGACGGCTCA
GCTGCTGCCTCACTGTGTGGAGTCCTCAGGTCAAACCCATGTACTCTCGTCCACGTTTCTCAGCCCCCAG
TGCTCCCCTCAGCACTCGCCCCTGGGGGGCCTGAAGAGCCCGCAGCACATCAGCCTGCCTCCATCACCCA
ACAACCATTACTTCCTGGCTTCCTCTTCGGGAGCTCAGAGAGAGAACCATGGGGTCTCTTCACCCAGCAG
CAGCCAAGGGTGCGCACAGATGACTGGTTTACAATCTTCTGACAAGGTGGGGCCAACGTTTTCAATTCCA
TCCCCAACTTTTTCTAAGTCAAGTTCAGCAGTTTCAGATATCACCCAGCCCCCATCCTATGAAGATGCAG
TGAAGCAGCAAATGACTCGGAGTCAGCAGATGGACGAACTCCTGGATGTCCTCATTGAAAGTGGAGAAAT
GCCAGCCGATGCCAGGGAAGATCATTCATGTCTTCAGAAAATTCCAAAGATCCCTGGGTCCTCCTGCAGC
CCAACTGCCATCCCCCCGAAGCCCTCGGCTTCCTTTGAGCAGGCATCTTCGGGAGGCCAGATGGCCTTCG
ATCACTACGCCAACGACAGTGACGAACACCTGGAAGTCTTATTGAATTCTCACAGCCCCATCGGAAAGGT
GAGCGATGTTACCCTCCTCAAAATCGGAAGCGAGGAGCCTCCTTTTGACAGCATCATGGATGGCTTCCCA
GGGAAGGCTGCGGAAGATCTCTTCAGTGCTCACGAGCTCTTGCCTGGGCCCCTCTCCCCGATGCATGCAC
AGTTGTCACCTCCTTCTGTGGACAGCAGTGGTCTGCAGCTGAGCTTCACGGAATCTCCTTGGGAAACAAT
GGAATGGCTGGACCTCACTCCACCTAGTTCCACGCCAGGCTTCAGCAACCTTACCTCCAGTGGGCCCAGC
ATTTTCAACATCGATTTTCTGGATGTTACAGATCTTAATCTGAATTCCCCTATGGATCTCCACTTACAGC
AGTGGTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI

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|---|---|
| **ACCN:** | NM_146386 |
| **Insert Size:** | 2808 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:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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_146386.3, NP_666498.2 |
| **RefSeq Size:** | 4983 bp |
| **RefSeq ORF:** | 2808 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] |