

Product datasheet for **MC208956**

Mef2c (NM_025282) Mouse Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | Mef2c (NM_025282) Mouse Untagged Clone |
| Tag: | Tag Free |
| Symbol: | Mef2c |
| Synonyms: | 5430401D19Rik; 9930028G15Rik; AV011172; Mef2 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |
| Fully Sequenced ORF: | >MC208956 representing NM_025282 Red=Cloning site Blue=ORF Orange=Stop codon |

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGC**C

ATGGGGAGAAAAAGATTAGATTACGAGGATAATGGATGAGCGTAACAGACAGGTGACTTTTACGAAGA
GGAAATTTGGATTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGCGACTGTGAGATTGCACTGATCAT
CTTCAACAGCACCAACAAGCTGTTCCAGTACGCCAGCACTGACATGGATAAGGTGTTGCTCAAGTACACC
GAGTACAACGAGCCGCACGAGAGCCGGACAACTCAGACATTGTGGAGGCATTGAACAAGAAAGAAAACA
AAGGCTCTGAAAGCCCCGATCCTGACTCCTTATGCACTCACCCACGCACTGAAGAAAAATACAAAA
AATTAATGAAGAATTTGATAATATGATCAAGAGTCATAAAATTCCTGCTGTTCCACCTCCGAGCTTTGAG
ATGCCAGTTACCATCCAGTGTCCAGCCATAACAGTTTGGTGTACAGCAATCCTGTGACGACACTGGGAA
ACCCCAATCTTCTGCCACTGGCCACCCGCTCTGTCAGAGGAATAGTATGTCTCCTGGTGAACACATAG
ACCTCCAAGTGCAGGTAACACAGGCGGTCTGATGGCGGAGATCTGACATCCGGTGCAGGCACCAGCGCA
GGGAATGGATACGGCAACCCCGAACTCACCAGGCTGCTGGTCTCACCTGGTAACCTGAACAAGAATA
TACAAGCCAAATCTCTCCCTATGAATCTAGGAATGAATAATCGTAAGCCAGATCTCCGCTTCTTAT
CCACCTGGCAGCAAGAACAGATGCCATCAGTGAATCAAAGGATAAATAACTCCAGTCGGCTCAGTCA
TTGGCTACCCCGGTGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAG
CCATTTCAACAACATATGGTACTGAGTACTCTCTGAGTAGCGCAGATCTGTCTCTGTCTGGTTCAA
CACTGCCAGTGCCTCCACCTCGGCTCTGTAAGTGGTGGCAGCAGCAGCAGCCTACATAACATGCCGCCA
TCTGCCCTCAGTCAGTTGGGAGACCGTACCACCACCCCTTCGAGATACCCACAACACACCACGCGCCACG
AGGCGGGAGGTCTCCTGTTGACAGCTTGGCAGCTGTAGCAGTCTCTACGATGGGAGCGACCGAGAGGA
TCACCGGAACGAATTCACCTCCCTTGGACTCACCAGACCTTCGCCGGACGAAAGGAAAGTCTCTCA
GTCAAGCGCATGCGACTCTGAAGGATGGCAACATGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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| Restriction Sites: | Sgfl-Mlul |
| ACCN: | NM_025282 |
| Insert Size: | 1299 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: | <u>NM_025282.3</u> , <u>NP_079558.1</u> |
| RefSeq Size: | 6325 bp |
| RefSeq ORF: | 1299 bp |
| Locus ID: | 17260 |
| UniProt ID: | <u>Q8CFN5</u> |
| Cytogenetics: | 13 43.68 cM |

Gene Summary:

Transcription activator which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. Controls cardiac morphogenesis and myogenesis, and is also involved in vascular development. Enhances transcriptional activation mediated by SOX18 (PubMed:11554755). May also be involved in neurogenesis and in the development of cortical architecture. Isoforms that lack the repressor domain are more active than isoform 1 (By similarity). Plays an essential role in hippocampal-dependent learning and memory by suppressing the number of excitatory synapses and thus regulating basal and evoked synaptic transmission. Crucial for normal neuronal development, distribution, and electrical activity in the neocortex. Necessary for proper development of megakaryocytes and platelets and for bone marrow B-lymphopoiesis. Required for B-cell survival and proliferation in response to BCR stimulation, efficient IgG1 antibody responses to T-cell-dependent antigens and for normal induction of germinal center B-cells.[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (2) contains an alternate in-frame exon in the 5' coding region, lacks an in-frame exon in the central coding region, and uses an alternate in-frame splice site in the 3' coding region, compared to variant 3. The encoded isoform (2) is shorter than isoform 3. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.