

Product datasheet for **MC217719**

Mef2a (BC096598) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2a (BC096598) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mef2a
Synonyms:	A430079H05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC096598
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCGAAAGAAGATACAAATCACACGCATAATGGATGAGAGGAACCGACAGGTTACTTTTACAAGC
 GAAAGTTTGGATTGATGAAGAAAAGCCTATGAACCTCAGTGTGCTCTGTGACTGTGAAATAGCACTCATCAT
 TTTCAACAGCTCTAATAAGCTGTTTCAGTACGCTAGCACTGACATGGACAAAGTCTTCTCAAATACACT
 GAGTATAACGAGCCTCATGAAAGCAGGACGAACTCGGATATCGTTGAGGCTCTGAACAAGAAGGAACACA
 GAGGGTGCAGACGCCAGACCCTGATACTTCATATGTGCTAACTCCACATACAGAAGAAAAATAAAAA
 AATTAATGAGGAATTTGATAATATGATGCGGAATCATAAAATCGCACCTGGCTTGCCACCTCAGAATTC
 TCAATGTCTGTACAGTCCCTGTGACCAGCCCTAATGCTTTGTCGTACACTAACCCAGGGAGTTCACCTCG
 TGTACCCTCTTTGGCAGCCAGCTCAACATTAGCAGATTGAGCATGCTGTCTCCACCCCGCCAGCAGCT
 ACATAGAAATGTGTCCCGAGGACTCCGCAGAGACCACCAAGTACCGGCAGTGCAAGTGGGATGTTGAGC
 ACTACAGACCTACGGTGCACAAATGGAGCTGGAATAGTCTGTGGGGAATGGATTTGTAAACTCAAGGG
 CCTCTCCAAATTTGATTGGAAATACTGGTGCAAAATAGTTTAGGCAAAGTCATGCCTACAAAGTCTCCCC
 GCCACCAGGTGGTGGCAGTCTTGAATGAACAGTCGGAACCAGATCTACGAGTTGTCAATCCCCATCA
 AGCAAGGGCATGATGCCCCACTTAATGCCCAAAGGATAAGCAGTTCTCAAGCCACTCAACCTCTTGCCA
 CGCCTGTAGTGTCTGTGACAACCTCCGAGCTTGCCTCCACAGGGACTAGTGTACTCAGCAATGCCGACAGC
 CTACAACACTGATTACTCACTGACCAGCGCTGACCTGTCTGCCCTGCAAGGCTTTACTTCCCCTGGAATG
 CTGTCTCTGGGGCAGGCTTCAGCCTGGCAGCACCCTTAGGACAAGCAGCCCTCAGCTCTCTGGTGG
 CTGGAGGGCAGTTATCTCAGGGTTCAAATTTGTCCATTAAACACCAACCAGAACATCAACATTAAGTCAGA
 GCCAATTTACCTCCCCGTGATAGAATGACCCCATCAGGCTTCCAACAGCAGCAGCAGCCACAACAG
 CAGCCACCGCCACAACCTCCACAGCCCCAACCCGGCAGGAAATGGGGCGCTCCCCTGTGGACAGTCTGA
 GCAGCTCCAGCAGCTCCTATGATGGCAGTGACCGGGAGGATCCACGGGGTGAATTCATTCTCAATTGT
 GCTTGGCCGACCTCCAAATACTGAGGACAGAGAAAGCCCTTCTGTAAAACGCATGAGGATGGACACATGG
 GTGACCTAA

ACGCGTACGCGGGCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-Mlul

ACCN: BC096598

Insert Size: 1479 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.
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: [BC096598](#), [AAH96598](#)

RefSeq Size: 2469 bp

RefSeq ORF: 1478 bp

Locus ID: 17258

Cytogenetics: 7 36.72 cM

Gene Summary: Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle-specific genes. Also involved in the activation of numerous growth factor- and stress-induced genes. Mediates cellular functions not only in skeletal and cardiac muscle development, but also in neuronal differentiation and survival. Plays diverse roles in the control of cell growth, survival and apoptosis via p38 MAPK signaling in muscle-specific and/or growth factor-related transcription. In cerebellar granule neurons, phosphorylated and sumoylated MEF2A represses transcription of NUR77 promoting synaptic differentiation. Associates with chromatin to the ZNF16 promoter (By similarity).[UniProtKB/Swiss-Prot Function]