

Product datasheet for **MC227998**

Mef2a (NM_001291191) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2a (NM_001291191) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mef2a
Synonyms:	A430079H05Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC227998 representing NM_001291191
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGAAAGAAGATACAAATCACACGCATAATGGATGAGAGGAACCGACAGTTACTTTTACAAGC
 GAAAGTTTGGATTGATGAAGAAAGCCTATGAACCTCAGTGTGCTCTGTGACTGTGAAATAGCACTCATCAT
 TTTCAACAGCTCTAATAAGCTGTTTCAGTACGCTAGCACTGACATGGACAAAGTCTTCTCAAATACACT
 GAGTATAACGAGCCTCATGAAAGCAGGACGAACTCGGATATCGTTGAGGCTCTGAACAAGAAGGAACACA
 GAGGGTGCAGACGCCAGACCCTGATACTTCATATGTGCTAACTCCACATACAGAAGAAAAATAAAAA
 AATTAATGAGGAATTTGATAATATGATGCGGAATCATAAAATCGCACCTGGCTTGCCACCTCAGAACTTC
 TCAATGTCTGTACAGTCCCTGTGACCAGCCCTAATGCTTTGTCGTACACTAACCCAGGGAGTTCCTCG
 TGTACCCTCTTTGGCAGCCAGCTCAACATTAGCAGATTGAGCATGCTGTCTCCACCCCGCCAGCAGCT
 ACATAGAAATGTGTCCCGAGGACTCCGCAGAGACCACCAAGTACCGGCAGTGCAAGTGGGATGTTGAGC
 ACTACAGACCTACGGTGCACAAATGGAGCTGGAATAGTCTGTGGGGAATGGATTTGTAAACTCAAGGG
 CCTCTCCAAATTTGATTGGAATACTGGTGCAAAATAGTTTAGGCAAAGTCATGCCTACAAAGTCTCCCC
 GCCACCAGGTGGTGGCAGTCTTGAATGAACAGTCGGAACCAGATCTACGAGTTGTCAATCCCCATCA
 AGCAAGGGCATGATGCCCCACTTAATGCCCAAAGGATAAGCAGTTCTCAAGCCACTCAACCTCTTGCCA
 CGCCTGTAGTGTCTGTGACAACCTCCGAGCTTGCCTCCACAGGGACTAGTGTACTCAGCAATGCCGACAGC
 CTACAACACTGATTACTCACTGACCAGCGCTGACCTGTCTGCCCTGCAAGGCTTTACTTCCCCTGGAATG
 CTGGAGGGCAGTTATCTCAGGGTTCAAATTTGTCCATTAAACCAACCAACAGAACATCAACATTAAGTCAGA
 GCCAATTTACCTCCCCGTGATAGAATGACCCCATCAGGCTTCCAACAGCAGCAGCAGCCACAACAG
 CAGCCACCGCCACAACCTCCACAGCCCCAACCCGGCAGGAAATGGGGCGCTCCCCTGTGGACAGTCTGA
 GCAGCTCCAGCAGCTCCTATGATGGCAGTACCAGGGAGGATCCACGGGGTACTTCCATTCTCAATTGT
 GCTTGGCCGACCTCCAAATACTGAGGACAGAGAAAGCCCTTCTGTAAAACGCATGAGGATGGACACATGG
 GTGACCTAA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM_001291191
- 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001291191.1](#), [NP_001278120.1](#)

RefSeq Size: 5554 bp

RefSeq ORF: 1479 bp

Locus ID: 17258

UniProt ID: [Q60929](#)

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]

Transcript Variant: This variant (2) lacks two alternate in-frame exons and contains another alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a. Variants 2 and 3 both encode the same isoform (b). 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.