

## Product datasheet for **MC227982**

### Mef2a (NM\_001291195) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2a (NM_001291195) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mef2a
Synonyms:	A430079H05Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**Fully Sequenced ORF:** >MC227982 representing NM\_001291195  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGCGAAAGAAGATACAAATCACACGCATAATGGATGAGAGGAACCGACAGGTTACTTTTACAAGC  
 GAAAGTTTGGATTGATGAAGAAAGCCTATGAACCTAGTGTGCTCTGTGACTGTGAAATAGCACTCATCAT  
 TTTCAACAGCTCTAATAAGCTGTTTCAGTACGCTAGCACTGACATGGACAAAGTCTTCTCAAATACACT  
 GAGTATAACGAGCCTCATGAAAGCAGGACGAACTCGGATATCGTTGAGACGTTAAGAAAGAAAGGCCTTA  
 ATGGTTGTGAGAGCCCTGATGCTGACGATTACTTTGAGCACAGTCCACTCTCGGAGGACAGATTAGCAA  
 ACTAAATGAAGATAGTGATTTTATTTTCAAACGAGGCCCTCTGGCTTCCACCTCAGAACTTCTCAATG  
 TCTGTCACAGTCCCTGTGACCAGCCCTAATGCTTTGTCGTACACTAACCCAGGGAGTTCACTCGTGTAC  
 CGTCTTTGGCAGCCAGCTCAACATTAGCAGATTGAGCATGCTGTCTCCACCCAGCCAGCTACATAG  
 AAATGTGTCCCGAGGAGTCCGCAGAGACCACCAAGTACCGGCAGTGCAAGTGGGATGTTGAGCACTACA  
 GACCTCACGGTGCCAAATGGAGCTGAAATAGTCTGTGGGAATGGATTGTAAACTCAAGGGCCTCTC  
 CAAATTTGATTGGAAATACTGGTGCAAATAGTTTAGGCAAAGTCATGCCTACAAAGTCTCCCCGCCACC  
 AGGTGGTGGCAGTCTTGAATGAACAGTCGAAACCAGATCTACGAGTTGTATTCCCCCATCAAGCAAG  
 GGCATGATGCCCCACTTAATGCCCAAAGGATAAGCAGTTCTCAAGCCACTCAACCTTTGCCACGCCTG  
 TAGTGTCTGTGACAACTCCGAGCTTGCCTCCACAGGGACTAGTGTACTCAGCAATGCCGACAGCCTACAA  
 CACTGATTACTCACTGACCAGCGCTGACCTGTCTGCCCTGCAAGGCTTTACTTCCCCTGGAATGCTGTCT  
 CTGGGGCAGGCTTCAGCCTGGCAGCAGCACCCTAGGACAAGCAGCCCTCAGCTCTCTGGTGGCTGGAG  
 GGCAGTTATCTCAGGGTTCAAATTTGTCCATTAAACCAACCAGAATCAACATTAAGTCAGAGCCAAT  
 TTCACCTCCCGTGATAGAATGACCCCATCAGGCTTCCAACAGCAGCAGCAGCAGCCACAACAGCAGCCA  
 CCGCCACAACCTCCACAGCCCAACCCCGCAGGAAATGGGGCGCTCCCTGTGGACAGTCTGAGCAGCT  
 CCAGCAGCTCCTATGATGGCAGTGACCGGGAGGATCCACGGGGTACTTCCATTCTCAATTGTGCTTGG  
 CCGACCTCCAAATACTGAGGACAGAGAAAGCCCTTCTGTAAAACGCATGAGGATGGACACATGGGTGACC  
 TAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** Sgfl-MluI
- ACCN:** NM\_001291195
- Insert Size:** 1473 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001291195.1, NP_001278124.1</u>
<b>RefSeq Size:</b>	5528 bp
<b>RefSeq ORF:</b>	1473 bp
<b>Locus ID:</b>	17258
<b>UniProt ID:</b>	<u>Q60929</u>
<b>Cytogenetics:</b>	7 36.72 cM
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (4) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (c) has the same N- and C-termini but is shorter compared to isoform a.</p>