

## Product datasheet for **RN204477**

### **Mef2a (NM\_001014035) Rat Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mef2a (NM_001014035) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Mef2a
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >RN204477 representing NM\_001014035  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGGGCGAAAGAAAATACAAATTACACGCATAATGGATGAGAGGAACCGACAGGTGACTTTTACAAGC  
 GAAAGTTCGGATTGATGAAGAAAGCCTATGAACCTCAGTGTGCTCTGTGACTGTGAGATAGCACTCATCAT  
 CTTCAACAGCTCTAACAAGTTGTTTCAGTACGCCAGCACTGACATGGACAAAGTCTTCTCAAGTACACC  
 GAGTACAACGAGCCTCATGAAAGCAGGACGAACTCGGATATTGTGGAGGCTCTGAACAAGAAGGAACACA  
 GAGGCTGCGACAGCCAGACCCTGATACTTCATATGTGCTAACTCCACATACAGAAGAAAAATATAAAAA  
 AATTAATGAGGAATTTGATAATATGATGCGGAATCATAAAATCGCACCTGGCTTGCCGCCTCAGAATTC  
 TCAATGTCTGTCACAGTCCCTGTGACCAGCCCTAATGCTTTGTCGTACACTAACCCAGGGAGTTCACCTCG  
 TGTACCCTCTTTGGCAGCCAGCTCAACATTAGCAGAGTCCAGCATGCTGTCTCCACCCCGCCAGCCAGCT  
 ACATAGAATGTGTCTCCAGGAGCTCCGCAGAGACCACCAAGCACTGGCAGTGCAGTGGGATGTTGAGC  
 ACTACAGACCTACGGTACCAAATGGAGCTGGAATAGTCTGTGGGGAATGGATTTGTAAACTCAAGGG  
 CCTCTCCAAATTTGATTGGAATACTGGTGCGAATAGTGTAGGCAAAGTCATGCCTACAAAGTCCCCCCC  
 GCCACCAGGTGGGGGCGAGTGTGGAATGAACAGTCGGAACCCAGATCTACGGGTTGTATTCCCCCTTCA  
 AGCAAGGGCATGATGCCCCACTTAATGCCAAAGGATAAGTAGTTCTCAAGCCACACAACCTCTTGCCA  
 CGCCCGTGGTGTCTGTGACAACCTCAAGCTTGCCTCCGCAGGGACTAGTGTACTCGGCCATGCCGACAGC  
 CTACAACACTGATTACTCATTGACCAGCGCTGACCTGTCCGCCCTGCAAGGCTTTACTTCCCCTGGAATG  
 CTGGAGGGCAGTTATCTCAGGGTTCAAATTTGTCCATTAAACCAACCAAGCAACATCAACATTAAGTCAGA  
 GCCAATTTACCTCCCCGTGATAGAATGACCCCATCAGGCTTCCAGCAGCAGCAGCAGCAGCAGCCACAG  
 CAGCAACCACCGCCACAACCTCCACAGCCCCAGCCCAACCCCGCAGGAAATGGGGCGCTCCCCTGTGG  
 ACAGTCTGAGCAGCTCTAGCAGCTCTACGATGGCAGTGACCGGGAGGATCCACGGGGCGACTTCCATTC  
 TCCAATTTGTGCTTGCCGACCTCCAAATGCTGAGGACAGAGAAAGCCCTCTGTAAAACGCATGAGGATG  
 GACACATGGGTGACCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM\_001014035
- Insert Size:** 1488 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:** [NM\\_001014035.1](#), [NP\\_001014057.1](#)

**RefSeq Size:** 3237 bp

**RefSeq ORF:** 1488 bp

**Locus ID:** 309957

**UniProt ID:** [Q2MJT0](#)

**Cytogenetics:** 1q22

**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]