

Product datasheet for **MR207994**

Mef2a (NM_001033713) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2a (NM_001033713) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mef2a
Synonyms:	A430079H05Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR207994 representing NM_001033713
 Red=Cloning site Blue=ORF Green=Tags(s)

CTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGGGCGAAAGAAGATACAAATCACACGCATAATGGATGAGAGGAACCGACAGGTTACTTTTACAAGC
 GAAAGTTTGGATTGATGAAGAAAAGCCTATGAACTCAGTGTGCTCTGTGACTGTGAAATAGCACTCATCAT
 TTTCAACAGCTCTAATAAGCTGTTTCAGTACGCTAGCACTGACATGGACAAAGTCTTCTCAAATACACT
 GAGTATAACGAGCCTCATGAAAGCAGGACGAACTCGGATATCGTTGAGACGTTAAGAAAGAAAGGCCTTA
 ATGGTTGTGAGAGCCCTGATGCTGACGATTACTTTGAGCACAGTCCACTCTCGGAGGACAGATTAGCAA
 ACTAAATGAAGATAGTGATTTTATTTTCAAACGAGGCCCTCTGGCTTGCACCTCAGAATTCTCAATG
 TCTGTCACAGTCCCTGTGACCAGCCCTAATGCTTTGTCGTACACTAACCCAGGGAGTTCACTCGTGTAC
 CGTCTTTGGCAGCCAGCTCAACATTAGCAGATTGAGCATGCTGTCTCCACCCAGCCAGCTACATAG
 AAATGTGTCCCGAGGAGTCCGAGAGACCACCAAGTACCGGCAGTGCAAGTGGGATGTTGAGCACTACA
 GACCTCACGGTGCCAAATGGAGCTGAAATAGTCTGTGGGAAATGGATTGTAAACTCAAGGGCCTCTC
 CAAATTTGATTGAAATACTGGTGCAAATAGTTTAGGCAAAGTCATGCCTACAAAGTCTCCCCGCCACC
 AGGTGGTGGCAGTCTTGAATGAACAGTCGAAACCAGATCTACGAGTTGTATTCCCCATCAAGCAAG
 GGCATGATGCCCCACTTTCGGAGGAAGAGGAATTGGAGTTGAATGCCCAAAGGATAAGCAGTTCTCAAG
 CCACTCAACCTCTTGCCACGCCTGTAGTGTCTGTGACAACTCCGAGCTTGCCTCCACAGGGACTAGTGTA
 CTCAGCAATGCCGACAGCCTACAACACTGATTACTCACTGACCAGCGTGACCTGTCTGCCTGCAAGGC
 TTTACTTCCCCTGGAATGCTGTCTCTGGGCGAGGCTTACGCTTCAAGTTCAAATTTGTCCATTAACCAACCAGAA
 CCCTCAGCTCTCTGGTGGCTGGAGGGCAGTTATCTCAGGGTTCAAATTTGTCCATTAACCAACCAGAA
 CATCAACATTAAGTCAGAGCCAATTTACCTCCCGTGATAGAATGACCCCATCAGGCTTCCAACAGCAG
 CAGCAGCAGCCACAACAGCAGCCACCGCCACAACCTCCACAGCCCAACCCGGCAGGAAATGGGGCGCT
 CCCCTGTGGACAGTCTGAGCAGCTCCAGCAGCTCCTATGATGGCAGTGACCGGGAGGATCCACGGGTGA
 CTTCCATTCTCAATTGTGCTTGGCCGACCTCAAATACTGAGGACAGAGAAAGCCCTTCTGTAAAAACGC
 ATGAGGATGGACACATGGGTGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR207994 representing NM_001033713
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQVFTTKRKFGLMKKAYELSVLCDCEIALIIFNSSNKLQYASTDMDKVLKLYT
 EYNPHESTRNSDIVETLRKKGLNGCESPDADDYFEHSPLSEDRFSKLNEDSDFIFKRGPPGLPPQNFMS
 SVTVPVTSNALSYTNPGSSLVSPSLAASSTLADSSMLSPPPATLHRNVSPGAPQRPSTGSASGMLSTT
 DLTVPNGAGNSPVGNFVNSRASPNLIGNTGANSLGKVMPTKSPPPGGGSLGMNSRKPDLRVVIPPSSK
 GMPPLSEEELELNAQRISSSQATQPLATPVVSVTTPSLPPQGLVYSAMPTAYNTDYSLSADLSALQG
 FTSPGMLSLGQASAWQQHHLGQAALSSLVAGGQLSQGSNLSINTNQININIKSEPISPPRDRMTPSGFQQQ
 QQQPQQPPPPQPQPRQEMGRSPVDSLSSSSSYDGSREDPRGDFHSPIVLGRPPNTEDRESPSVKR
 MRMDTWVT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

ACCN: NM_001033713

ORF Size: 1494 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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).

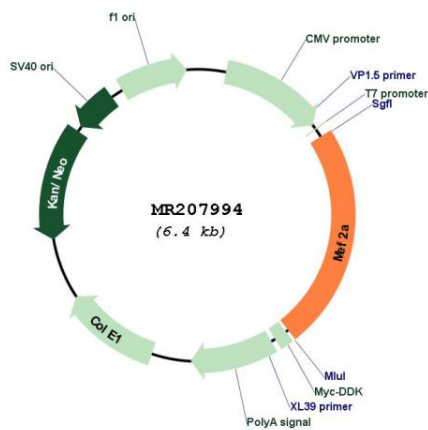
- Reconstitution Method:**
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the 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_001033713.2](#), [NP_001028885.1](#)

RefSeq Size: 2898 bp
 RefSeq ORF: 1497 bp
 Locus ID: 17258
 UniProt ID: [Q60929](#)
 Cytogenetics: 7 36.72 cM
 MW: 54 kDa

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]

Product images:



Circular map for MR207994