

## Product datasheet for **MR229433**

### Mef2a (NM\_001291196) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2a (NM_001291196) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mef2a
Synonyms:	A430079H05Rik
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR229433 representing NM_001291196 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGTCTGTACAGTCCCTGTGACCAGCCCTAATGCTTTGTCGTACACTAACCCAGGGAGTTCACCTCGTGT  
CACCGTCTTTGGCAGCCAGCTCAACATTAGCAGATTCGAGCATGTCTCCACCCAGCCAGCTACA  
TAGAAATGTGTCCCAGGAGCTCCGCAGAGACCACCAAGTACCGGCAGTGAAGTGGGATGTTGAGCACT  
ACAGACCTCACGGTGCCAAATGGAGCTGGAATAGTCCTGTGGGGAATGGATTTGAAAACCAAGGGCCT  
CTCCAAATTTGATTGAAATACTGGTGCAATAGTTTAGGCAAAGTCATGCCACAAAGTCTCCCCCGCC  
ACCAGGTGGTGGCAGTCTTGAATGAACAGTCGGAAACCAGATCTACGAGTTGTCAATCCCCATCAAGC  
AAGGGCATGATGCCCCCACTTAATGCCAAAGGATAAGCAGTTCTCAAGCCACTCAACCTTTGCCACGC  
CTGTAGTGTCTGTGACAACTCCGAGCTTGCCCTCCACAGGGACTAGTGTACTCAGCAATGCCGACAGCCTA  
CAACACTGATTACTCACTGACCAGCGTGACCTGTCTGCCCTGCAAGGCTTTACTCCCCGGAATGCTG  
TCTCTGGGGCAGGCTTCAGCCTGGCAGCAGCACCATCAGGACAAGCAGCCCTCAGCTCTCTGGTGGCTG  
GAGGGCAGTTATCTCAGGGTTCAAATTTGTCCATTAACACCAACCAGAACATCAACATTAAGTCAGAGCC  
AATTTACCTCCCGTGATAGAATGACCCCATCAGGCTTCCAACAGCAGCAGCAGCAGCCACAACAGCAG  
CCACCGCCACAACCTCCACAGCCCAACCCGGCAGGAAATGGGGCGCTCCCCTGTGGACAGTCTGAGCA  
GCTCCAGCAGCTCCTATGATGGCAGTGACCGGGAGGATCCACGGGGTACTTCCATTCTCCAATTGTGCT  
TGGCCGACCTCCAATACTGAGGACAGAGAAAGCCCTTCTGTA AACGCATGAGGATGGACACATGGGTG  
ACC

**ACGCGT**ACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229433 representing NM\_001291196  
 Red=Cloning site Green=Tags(s)

MSVTVPVTSPNALSYTNP GSSLVSPSLAASSTLADSSMLSPPPATLHRNVSPGAPQRRPSTGSASGMLST  
 TDLTVPNGAGNSPVGNFVNSRASPNLIGNTGANS LGKVMPTKSPPPPGGSLGMNSRKPDLRVVIPPSS  
 KGMPPLNAQRISSSQATQPLATPVVSVTTPSLPPQGLVYSAMP TAYNTDYS L TSADLSALQGFTSPGML  
 SLGQASAWQQHHLGQAALSSLVAGGQLSQGSNLSINTNQINIKSEPI SPPPRDRMTPSGFQQQQQPQQ  
 PPPQPPQPQRQEMGRSPVDSLSSSSSYDGS DREDPRGDFHSP I VLGRPPNTEDRESPSVKRM RMDTWV  
 T

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

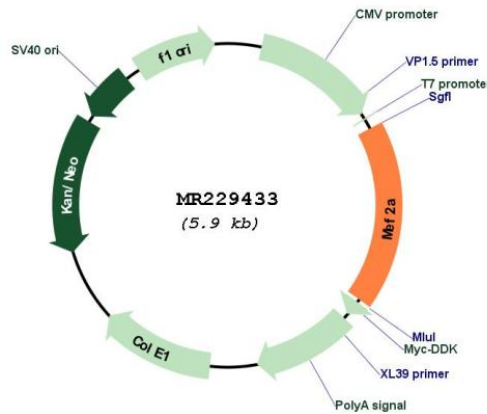
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001291196

<b>ORF Size:</b>	1053 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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>	<a href="#">NM_001291196.1</a> , <a href="#">NP_001278125.1</a>
<b>RefSeq Size:</b>	5675 bp
<b>RefSeq ORF:</b>	1056 bp
<b>Locus ID:</b>	17258
<b>UniProt ID:</b>	<a href="#">Q60929</a>
<b>Cytogenetics:</b>	7 36.72 cM
<b>MW:</b>	36.9 kDa
<b>Gene Summary:</b>	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]