

Product datasheet for **MR230193**

Mef2a (NM_001291195) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2a (NM_001291195) 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



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ORF Nucleotide Sequence:

>MR230193 representing NM_001291195
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCGAAAGAAGATACAAATCACACGCATAATGGATGAGAGGAACCGACAGTTACTTTTACAAGC
 GAAAGTTTGGATTGATGAAGAAAGCCTATGAACTCAGTGTGCTCTGTGACTGTGAAATAGCACTCATCAT
 TTTCAACAGCTCTAATAAGCTGTTTCAGTACGCTAGCACTGACATGGACAAAGTCTTCTCAAATACACT
 GAGTATAACGAGCCTCATGAAAGCAGGACGAACTCGGATATCGTTGAGACGTTAAGAAAGAAAGGCCTTA
 ATGGTTGTGAGAGCCCTGATGCTGACGATTACTTTGAGCACAGTCCACTCTCGGAGGACAGATTAGCAA
 ACTAAATGAAGATAGTGATTTTATTTTCAAACGAGGCCCTCTGGCTTGCACCTCAGAACTTCTCAATG
 TCTGTCACAGTCCCTGTGACCAGCCCTAATGCTTTGTCGTACACTAACCCAGGGAGTTCACTCGTGTAC
 CGTCTTTGGCAGCCAGCTCAACATTAGCAGATTGAGCATGCTGTCTCCACCCCGAGCCAGCTACATAG
 AAATGTGTCCCGAGGAGTCCGCAGAGACCACCAAGTACCGGCAGTGCAAGTGGGATGTTGAGCACTACA
 GACCTCACGGTGCCAAATGGAGCTGAAATAGTCTGTGGGAATGGATTGTAAACTCAAGGGCCTCTC
 CAAATTTGATTGAAATACTGGTGCAAATAGTTTAGGCAAAGTCATGCCTACAAAGTCTCCCCCGCCACC
 AGGTGGTGGCAGTCTTGAATGAACAGTCGAAACCAGATCTACGAGTTGTATTCCCCCATCAAGCAAG
 GGCATGATGCCCCACTTAATGCCCAAAGGATAAGCAGTTCTCAAGCCACTCAACCTCTTGCCACGCCTG
 TAGTGTCTGTGACAACTCCGAGCTTGCCTCCACAGGGACTAGTGTACTCAGCAATGCCGACAGCCTACAA
 CACTGATTACTCACTGACCAGCGCTGACCTGTCTGCCCTGCAAGGCTTTACTTCCCCTGGAATGCTGTCT
 CTGGGGCAGGCTTCAGCCTGGCAGCAGCACCCTAGGACAAGCAGCCCTCAGCTCTCTGGTGGCTGGAG
 GGCAGTTATCTCAGGGTTCAAATTTGTCCATTAAACCAACCAGAATCAACATTAAGTCAGAGCCAAT
 TTCACCTCCCCGTGATAGAATGACCCCATCAGGCTTCCAACAGCAGCAGCAGCAGCCACAACAGCAGCCA
 CCGCCACAACCTCCACAGCCCAACCCCGCAGGAAATGGGGCGCTCCCTGTGGACAGTCTGAGCAGCT
 CCAGCAGCTCCTATGATGGCAGTGACCGGGAGGATCCACGGGGTACTTCCATTCTCAATTGTGCTTGG
 CCGACCTCCAATACTGAGGACAGAGAAAGCCCTTCTGTAAAACGCATGAGGATGGACACATGGGTGACC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230193 representing NM_001291195
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQVFTTKRFGLMKKAYELSVLCDCEIALIIFNSSNKLFFQYASTMDKVLKLYT
 EYNPHESTRNSDIVETLRKKGLNGCESPDADDYFEHSPLSEDRFSKLNEDSDFIFKRGPPGLPPQNFMS
 SVTVPVTSPLNALSNTNPGSSLVSPSLAASSTLADSSMLSPPPATLHRNVSPGAPQRPSTGSASGMLSTT
 DLTVPNGAGNSPVGNGFVNSRASPNLIGNTGANSLGKVMPTKSPPPPGGSLGMNSRKPDLRVVIPPSSK
 GMMPLNAQRISSSQATQPLATPVVSVTTPSLPPQGLVYSAMPTAYNTDYSLSADLSALQGFTSPGMLS
 LGQASAWQQHHLGQAALSSLVAGGQLSQGSNLSINTNQINIKSEPI SPPRDRMTPSGFQQQQPQQQP
 PPQPQPQPRQEMGRSPVDSLSSSSSYDGSREDPRGDFHSPIVLGRPPNTEPRESVVKRMRMDTWVT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

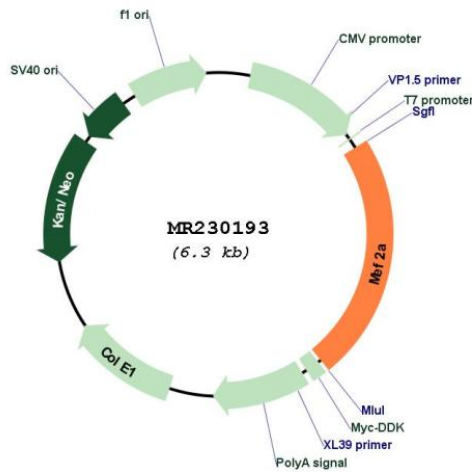
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001291195

ORF Size:

1470 bp

OTI Disclaimer:

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:	<ol style="list-style-type: none">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_001291195.1 , NP_001278124.1
RefSeq Size:	5528 bp
RefSeq ORF:	1473 bp
Locus ID:	17258
UniProt ID:	Q60929
Cytogenetics:	7 36.72 cM
MW:	53.1 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]