

Product datasheet for **MR208152**

Mef2d (NM_133665) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Mef2d (NM_133665) Mouse Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Mef2d |
| Synonyms: | C80750 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>MR208152 representing NM_133665
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAGGAAAAAGATTAGATCCAGCGAATCACTGATGAACGGAACCGCCAGGTGACCTTACCAAGC
 GGAAGTTTGGACTGATGAAGAAGGCCTACGAGCTGAGTGTGCTGTGCGACTGCGAGATCGCGCTCATCAT
 CTTCAACCACTCCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAGGTGCTGCTCAAGTACACC
 GAGTACAACGAGCCACACGAGAGCCGACCAATGCTGACATCATCGAGACCCTGAGGAAGAAGGGTTTCA
 ACGGCTGTGACAGCCCAGAGCCGGATGGGGAGGACTCACTGGAGCAGAGCCCCCTGCTGGAGGACAAGTA
 CCGGGCGGCCAGTGAGGAGCTGGATGGGCTCTTCAGGCGCTATGGGTATCTGTTCCGGCCCCAACTTT
 GCCATGCCTGTACAGTGCCCGTGTCCAATCAGAGCTCCATGCAGTTCAGCAATCCAAGTAGCTCTCTGG
 TCACTCCTTCCCTGGTGACATCATCCCTTACGGACCCACGGCTCTGTCCCCCAGCAGCCAGCACTACA
 GAGAAACAGTGTTTCTCCAGGCTTGCCCCAGCGCCTGCTAGTGCAGGAGCCATGCTGGGTGGAGACCTC
 AACAGTGCTAATGGAGCCTGCCCGAGCCCGTTGGGAATGGCTATGTAGTGCAGGAGCTTCCCCTGGCC
 TCCTCCCTGTGGCCAATGGCAACAGCCTAAACAAGTATCCCTGCCAAGTCTCCGCCCCACCCACCCA
 CAACCCAGCTTGGAGCCCCAGCCGCAAGCCTGATCTGCGGGTATCACTTCCCAGGGAGGCAAAAGGG
 TTAATGCATATTTGAACAATGCCAGCGCCTTGGGGTCTCCAGTCTACCCACTCGCTCACCACCCAG
 TGGTTTCCGTGGCAACACCAAGTTTACTCAGCCAGGGCCTCCCCTTCTCCTCCATGCCACTGCCTACAA
 CACAGATTACCAGCTGCCAGTGCGAGGCTATCCTCCTTACCAGCCTTCAAGTTCACCTGCAGGGCTGGCA
 CTAGGCAATGTACCCGCTGGCAGCAGCCAGCCGCCCCAGCAGCCACAACCGCCACAACCGCCACAGT
 CACAGCCACAGCCACCACAGCCACAGCCACAGCCACCTCAGCAACAGCCCCACTTGGTCCCCGTTTC
 TCTCAGCAACCTCATCCCTGGCAGCCCTTGCCTCACGTGGGTGCTGCTCTCACAGTCACTACCCACCCC
 CACATCAGCATCAAGTCAGAACCAGTGTCCCAAGTCTGGAACGAGCCCTGCACCTCCTCCACCAGCTG
 GTTCCAGCTGCCCGCCTGAGCCTGGCGAAGGTCTCAGCAGCCAGCTGGAGGATCCTATGAGACCGG
 GGACCGGATGATGGACGGGGGACTTTGGGCCACACTAGGCCTGCTGCGCCAGCCCCAGAGCCTGAG
 GCTGAGGGCTCAGCTGTGAAGAGGATGCGGCTGGATACTTGACATTAAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208152 representing NM_133665
 Red=Cloning site Green=Tags(s)

MGRKKIQIQIRITDERNRQVFTTKRKFGLMKKAYELSVLCDCEIALIIFNHSNKL FQYASTMDKVL LKYT
 EYNPHESTRNADIETLRKKGFNGCDSPEPDGEDSLEQSPLEEDKYRRASEELDGLFRRYGSSVPAPNF
 AMPVTVPVSNQSSMQFSNPSSSLVTPSLVTSSLTDPRLSPQQPALQRNSVSPGLPQRPASAGAMLGGDL
 NSANGACPSVGNQYVSARASPLLPVANGNSLNKVIPAKSPPPPTHNTQLGAPSRKPDLRVITSQGGKG
 LMHHLNNAQRLGVSQSTHSLTTPVVSATPSLLSQGLPFSSMPTAYNTDYQLPSAELSSLPFSSPAGLA
 LGNVTAWQPPPPQPPPPQPPQPPQPPQPPQPPQPPHLPVLSNLIPGSPLPHVGAALTVTTHP
 HISIKSEPVSPSRERSPAPPPAVFPAARPEPEGLSSPAGGSYETGDRDDGRGDFGPTLGLLRPAPEPE
 AEGSAVKRMRLDTWTLK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9046_d05.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_133665

ORF Size: 1521 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:

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_133665.4](#)

RefSeq Size: 2459 bp

RefSeq ORF: 1524 bp

Locus ID: 17261

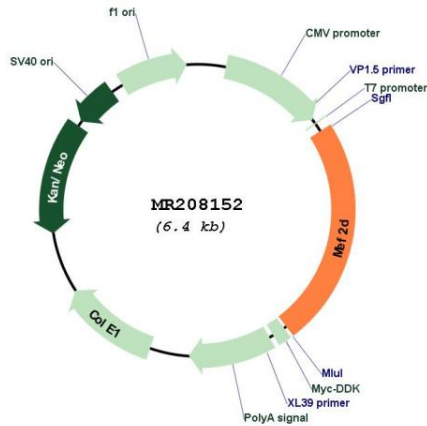
Cytogenetics: 3 38.78 cM

MW: 54.7 kDa

Gene Summary:

Transcriptional activator which binds specifically to the MEF2 element, 5'-YTA[AT](4)TAR-3', found in numerous muscle-specific, 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. Plays a critical role in the regulation of neuronal apoptosis.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208152