

Product datasheet for **MR226868**

Mef2c (NM_001170537) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2c (NM_001170537) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mef2c
Synonyms:	5430401D19Rik; 9930028G15Rik; AV011172; Mef2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR226868 representing NM_001170537
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAGAAAAAGATTACAGTTACGAGGATAATGGATGAGCGTAACAGACAGGTGACTTTTACGAAGA
 GGAAATTTGGATTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGCGACTGTGAGATTGCACTGATCAT
 CTTCAACAGCACCAACAAGCTGTTCAGTACGCCAGCACTGACATGGATAAGGTGTTGCTCAAGTACACC
 GAGTACAACGAGCCGACGAGAGCCGGACAACTCAGACATTGTGGAGACATTGAGAAAGAAGGGCCTCA
 ATGGCTGTGACAGCCAGATCCCGATGCAGACGATTAGTAGGTCACAGCCCTGAGTCTGAGGACAAGTA
 CAGGAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAAGATTGTGTGCTGTTCCACCTCCCAGC
 TTTGAGATGCCAGTTACCATCCCAGTGTCCAGCCATAACAGTTTGGTGTACAGCAATCCTGTCAGCACAC
 TGGGAAACCCCAATCTTCTGCCACTGGCCACCCGCTCTCTGCAGAGGAATAGTATGTCTCCTGGTGAAC
 ACATAGACCTCCAAGTGCAGGTAACACAGCGGCTGATGGGCGGAGATCTGACATCCGGTGCAGGCACC
 AGCGCAGGGAATGGATACGGCAACCCCGGAACCTACCAGGCCTGCTGGTCTCACCTGGTAACTGAACA
 AGAATATAACAAGCCAAATCTCCTCCCCCTATGAATCTAGGAATGAATAATCGTAAGCCAGATCTCCGCGT
 TCTTATCCACCTGGCAGCAAGAACACGATGCCATCAGTGAATCAAAGGATAAATAACTCCCAGTCGGCT
 CAGTCATTGGCTACCCCGGTGGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATC
 CATCAGCCATTTCAACAACATATGGTACTGAGTACTCTGAGTAGCGCAGATCTGTCATCTCTGTCTGG
 CTTCAACTGCCAGTGCCTCCACCTCGGCTCTGTAAGTGGCTGGCAGCAGCAGCACCTACATAACATG
 CCGCCATCTGCCCTCAGTCAGTTGGGAGCTTGCCTAGCACTCATTATCTCAGAGTTCAAATCTCTCCC
 TGCTTTCTACTCAAAGCCTCAGCATCAAGTCAGAACCTGTTTCTCCTCCTAGAGACCGTACCACCACCC
 TTCGAGATACCCACAACACACCACGCGCCACGAGGCGGGGAGGTCTCCTGTTGACAGCTTGAGCAGCTGT
 AGCAGTTCCTACGATGGGAGCGACCGAGAGGATACCCGGAACGAATTCCTCCTCCCCATTGGACTACCA
 GACCTTCGCCGGACGAAAGGGAAAGTCCTTCAGTCAAGCGCATGCGACTCTCTGAAGGATGGGCAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226868 representing NM_001170537
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQVTFTRKRFGLMKKAYELSVLCDCEIALIIFNSTNKL FQYASTDMDKVLLKYT
 EYNEPHERTNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESDKYRKINEDIDLMSRQRLCAVPPPS
 FEMPVTIPVSSHNSLVSNPVSTLGNPNLLPLAHPQLRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGT
 SAGNGYGNPRNSPGLLVSPGNLNKNIQAKSPPPMNLGMNNRKPDLRVLIPPGSKNTMPSVNQRINNSQSA
 QSLATPVVSVATPTLPGQMGGYPSAISTYGYEYLSADLSSLSGFNTASALHLGSVTGWQQHLHNM
 PPSALSQLGACTSTHLSQSSNLSLPSTQSLSIKSEPVSPDRRTTTPSRYPQHTTRHEAGRSPVDSLSSC
 SSSYDGSREDHRNEFHSPHGLTRPSPDERESPSVKRMRLSEGWAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1164_h10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001170537

ORF Size: 1398 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_001170537.1](#), [NP_001164008.1](#)

RefSeq Size: 6427 bp

RefSeq ORF: 1401 bp

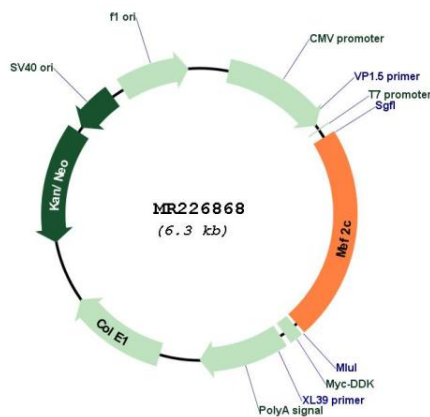
Locus ID: 17260

Cytogenetics: 13 43.68 cM

MW: 50.8 kDa

Gene Summary:

Transcription activator which binds specifically to the MEF2 element present in the regulatory regions of many muscle-specific genes. Controls cardiac morphogenesis and myogenesis, and is also involved in vascular development. Enhances transcriptional activation mediated by SOX18 (PubMed:11554755). May also be involved in neurogenesis and in the development of cortical architecture. Isoforms that lack the repressor domain are more active than isoform 1 (By similarity). Plays an essential role in hippocampal-dependent learning and memory by suppressing the number of excitatory synapses and thus regulating basal and evoked synaptic transmission. Crucial for normal neuronal development, distribution, and electrical activity in the neocortex. Necessary for proper development of megakaryocytes and platelets and for bone marrow B-lymphopoiesis. Required for B-cell survival and proliferation in response to BCR stimulation, efficient IgG1 antibody responses to T-cell-dependent antigens and for normal induction of germinal center B-cells.[UniProtKB/Swiss-Prot Function]

Product images:


Circular map for MR226868