

Product datasheet for **MR226865**

Mef2c (NM_025282) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2c (NM_025282) 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)



[View online »](#)

ORF Nucleotide Sequence:

>MR226865 representing NM_025282
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAGAAAAAGATTACAGTTACGAGGATAATGGATGAGCGTAACAGACAGGTGACTTTTACGAAGA
 GGAAATTTGGATTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGCGACTGTGAGATTGCACTGATCAT
 CTTCAACAGCACCAACAAGCTGTTCAGTACGCCAGCACTGACATGGATAAGGTGTTGCTCAAGTACACC
 GAGTACAACGAGCCGACGAGAGCCGGACAACTCAGACATTGTGGAGGCATTGAACAAGAAAGAAAAACA
 AAGGCTCTGAAAGCCCCGATCCTGACTCCTTTATGCACTACCCACGCACTGAAGAAAAATACAAAAA
 AATTAATGAAGAATTTGATAATATGATCAAGAGTCATAAAATTCCTGCTGTTCCACCTCCAGCTTTGAG
 ATGCCAGTTACCATCCCAGTGTCCAGCCATAACAGTTTGGTGTACAGCAATCCTGTCAGCACACTGGGAA
 ACCCCAATCTTCTGCCACTGGCCACCCGCTCTCTGCAGAGGAATAGTATGTCTCCTGGTGAACACATAG
 ACCTCCAAGTGCAGGTAACACAGGCGGTCTGATGGCGGAGATCTGACATCCGGTGCAGGCACCAGCGCA
 GGGAAATGGATACGGCAACCCCGGAACCTACCAGGCTGCTGGTCTCACCTGGTAACTGAACAAGAATA
 TACAAGCCAAATCTCTCCCCCTATGAATCTAGGAATGAATAATCGTAAGCCAGATCTCCGCGTTCTTAT
 CCCACCTGGCAGCAAGAACACGATGCCATCAGTGAATCAAAGGATAAATAACTCCAGTCGGCTCAGTCA
 TTGGCTACCCCGTGGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAG
 CCATTTCAACAACATATGGTACTGAGTACTCTCTGAGTAGCGCAGATCTGTCATCTCTGTCTGGCTTCAA
 CACTGCCAGTGCCTCCACCTCGGCTCTGTAACGGCTGGCAGCAGCAGCACCTACATAACATGCCGCCA
 TCTGCCCTCAGTCAGTTGGGAGACCGTACCACCACCCCTTCGAGATACCCACAACACACCACGCGCCACG
 AGGCGGGGAGGTCTCCTGTTGACAGCTTGAGCAGCTGTAGCAGTTCCTACGATGGGAGCGACCCGAGAGGA
 TCACCGGAACGAATTCCTCCCTCCCTTGGACTACCAGACCTTCGCCGACGAAAGGAAAGTCCTTCA
 GTCAAGCGCATGCGACTCTCTGAAGGATGGGCAACA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226865 representing NM_025282
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQVFTTKRKFGLMKKAYELSVLCDCEIALIIFNSTNKL FQYASTDMDKVLLKYT
 EYNPHESTRNSDIVEALNKKENKGESEPDSSYALTPRTEEKYKINEEFDNMIKSHKIPAVPPPSFE
 MPVTIPVSSHNSLVSNPVSTLGNPNLLPLAHPQLQRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGTSA
 GNGYGNPRNSPGLLVSPGNLNKNIQAKSPPPMNLGMNRRKPDRLVLIIPGSKNTMPSVNQRINNSQSAQS
 LATPVVSVATPTLPGQGMGGYPSAISTTYGTEYSLSSADLSSL SGFNTASALHLGSVTGWQQHLHMPP
 SALSQLDRTTTPSRYPQHTRRHEAGRSPVDSLSSCSSSYDGSREDHRNEFHSPIGLTRPSPDERESPS
 VKRMRLSEGWAT

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_025282

ORF Size: 1296 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_025282.3](#), [NP_079558.1](#)

RefSeq Size: 6325 bp

RefSeq ORF: 1299 bp

Locus ID: 17260

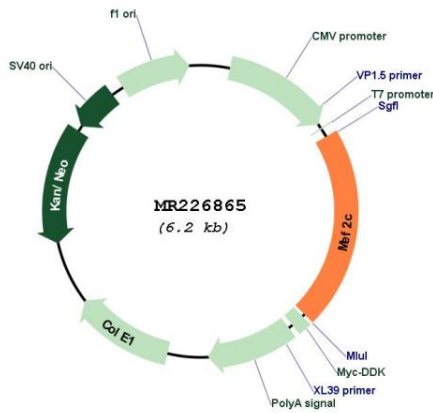
UniProt ID: [Q8CFN5](#)

Cytogenetics: 13 43.68 cM

MW: 47.4 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 MR226865