

Product datasheet for **MG226868**

Mef2c (NM_001170537) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2c (NM_001170537) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mef2c
Synonyms:	5430401D19Rik; 9930028G15Rik; AV011172; Mef2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG226868 representing NM_001170537
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAGAAAAAGATTACAGTTACGAGGATAATGGATGAGCGTAACAGACAGGTGACTTTTACGAAGA
 GGAAATTTGGATTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGCGACTGTGAGATTGCACTGATCAT
 CTTCAACAGCACCAACAAGCTGTTCCAGTACGCCAGCACTGACATGGATAAGGTGTTGCTCAAGTACACC
 GAGTACAACGAGCCGACGAGAGCCGGACAACTCAGACATTGTGGAGACATTGAGAAAGAAGGGCCTCA
 ATGGCTGTGACAGCCCAGATCCCAGTGCAGACGATTAGTAGGTCACAGCCCTGAGTCTGAGGACAAGTA
 CAGGAAAATTAACGAAGATATTGATCTAATGATCAGCAGGCAAAGATTGTGTGCTGTTCCACCTCCCAGC
 TTTGAGATGCCAGTTACCATCCCAGTGTCCAGCCATAACAGTTTGGTGTACAGCAATCCTGTCAGCACAC
 TGGGAAACCCCAATCTTCTGCCACTGGCCACCCGCTCTCTGCAGAGGAATAGTATGTCTCCTGGTGAAC
 ACATAGACCTCCAAGTGCAGGTAACACAGCGGCTGATGGCGGAGATCTGACATCCGGTGCAGGCACC
 AGCGCAGGGAATGGATACGGCAACCCCGGAACCTACCAGGCCTGCTGGTCTCACCTGGTAACTGAACA
 AGAATATAACAAGCCAAATCTCCTCCCCCTATGAATCTAGGAATGAATAATCGTAAGCCAGATCTCCGCGT
 TCTTATCCACCTGGCAGCAAGAACACGATGCCATCAGTGAATCAAAGGATAAATAACTCCCAGTCGGCT
 CAGTCATTGGCTACCCCGGTGGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATC
 CATCAGCCATTTCAACAACATATGGTACTGAGTACTCTGAGTAGCGCAGATCTGTCATCTCTGTCTGG
 CTTCAACTGCCAGTGCCTCCACCTCGGCTCTGTAAGTGGCTGGCAGCAGCAGCACCTACATAACATG
 CCGCCATCTGCCCTCAGTCAGTTGGGAGCTTGCCTAGCACTCATTATCTCAGAGTTCAAATCTCTCCC
 TGCTTTACTCAAAGCCTCAGCATCAAGTCAGAACCTGTTTCTCCTCCTAGAGACCGTACCACCCCC
 TTGAGATACCCACAACACACCACGCGCCACGAGCGGGGAGGTCTCCTGTTGACAGCTTGAGCAGCTGT
 AGCAGTTCCTACGATGGGAGCGACCGAGAGGATACCGGAACGAATTCCACTCCCCATTGGACTACCA
 GACCTTCGCCGACGAAAGGGAAAGTCCTTCAGTCAAGCGCATGCGACTCTCTGAAGGATGGGCAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG226868 representing NM_001170537
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQVFTTKRKFGLMFKAYELSVLCDCEIALIIFNSTNKL FQYASTDMDKVLLKYT
 EYNPHESTRNSDIVETLRKKGLNGCDSPDPDADDSVGHSPESDKYRKINEDIDLMISRQLCAVPPPS
 FEMPVTIPVSSHNSLVSNPVSTLGNPNLLPLAHPQLRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGT
 SAGNGYGNPRNSPGLLVSPGNLNKNIQAKSPPPMNLGMNRPDLRVLIPPGSKNTMPSVNQRINNSQSA
 QSLATPVVSVATPTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLGSVTGWQQHLHNM
 PPSALSQLGACTSTHLSQSSNLSLPSTQSLSIKSEPVSPDRRTTTPSRYPQHTTRHEAGRSPVDSLSSC
 SSSYDGSREDHRNEFHSPIGLTRPSPDERESP SVKRMRLSEGWAT

TRTRPLE - GFP Tag - V

Chromatograms:

https://cdn.origene.com/chromatograms/ja1180_g09.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

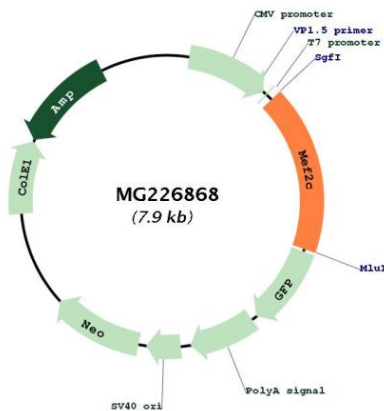
RefSeq ORF: 1401 bp

Locus ID: 17260

Cytogenetics: 13 43.68 cM

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 MG226868