

Product datasheet for **MG226865**

Mef2c (NM_025282) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mef2c (NM_025282) 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)
ORF Nucleotide Sequence:	>MG226865 representing NM_025282 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAGAAAAAGATTACAGATTACGAGGATAATGGATGAGCGTAACAGACAGGTGACTTTTACGAAGA
GGAAATTTGGATTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGCGACTGTGAGATTGCACTGATCAT
CTTCAACAGCACCAACAAGCTGTTCCAGTACGCCAGCACTGACATGGATAAAGGTGTTGCTCAAGTACACC
GAGTACAACGAGCCGACGAGAGCCGGACAACTCAGACATTGTGGAGGCATTGAACAAGAAAGAAAAACA
AAGGCTCTGAAAGCCCCGATCCTGACTCCTCTTATGCACTCACCCACGCACTGAAGAAAAATACAAAA
AATTAATGAAGAATTTGATAATATGATCAAGAGTCATAAAATTCCTGCTGTTCCACCTCCCAGCTTTGAG
ATGCCAGTTACCATCCCAGTGTCAGCCATAACAGTTTGGTGTACAGCAATCCTGTGACGACACTGGGAA
ACCCCAATCTTCTGCCACTGGCCACCCGCTCTCTGCAGAGGAATAGTATGTCTCCTGGTGAACACATAG
ACCTCCAAGTGCAGGTAACACAGGCGGTCTGATGGGCGGAGATCTGACATCCGGTGCAGGCACCAGCGCA
GGGAATGGATACGGCAACCCCGGAACCTCACCAGGCTGCTGGTCTCACCTGGTAACCTGAACAAGAATA
TACAAGCCAAATCTCCTCCCCATGAATCTAGGAATGAATAATCGTAAGCCAGATCTCCGCGTTCTTAT
CCCACCTGGCAGCAAGAACACGATGCCATCAGTGAATCAAAGGATAAATAACTCCCAGTCGGCTCAGTCA
TTGGTACCCCGGTGGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAG
CCATTTCAACAACATATGGTACTGAGTACTCTGAGTAGCGCAGATCTGTCATCTCTGTCTGGCTTCAA
CACTGCCAGTGCCTCCACCTCGGCTCTGTAAGTGGCTGGCAGCAGCAGCCTACATAACATGCCGCCA
TCTGCCCTCAGTCAGTTGGGAGACCGTACCACCACCCCTTCGAGATACCCACAACACACCACGCGCCACG
AGGCGGGGAGGTCTCCTGTTGACAGCTTGGAGCAGCTGTAGCAGTTCTACGATGGGAGCGACCGAGAGGA
TCACCGGAACGAATTCACCTCCCCATTGGACTCACCAGACCTTCGCCGGACGAAAGGGAAAGTCTCTTCA
GTCAAGCGCATGCGACTCTCTGAAGGATGGGCAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



[View online »](#)

Protein Sequence: >MG226865 representing NM_025282
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQVTFTRKRFGLMKKAYELSVLCDCEIALIIFNSTNKL FQYASTDMDKVLLKYT
 EYNPHESTRNSDIVEALNKKENKGESEPPDSSYALTPRTEEKYKKINEEFDNMIKSHKIPAVPPPSFE
 MPVTIPVSSHNSLVYSNPVSTLGNPNLLPLAHPSLQRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGTSA
 GNGYGNRNSPGLLVSPGNLNKNIQAKSPPPMNLGMNRRKPDLRVLIIPGSKNTMPSVNQRINNSQSAQS
 LATPVVSVATPTLPGQMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLGSVTGWQQQLHNMPP
 SALSQLGDRTTTTSRYPQHTRRHEAGRSPVDSLSSCSSYDGSREDHRNEFHSPIGLTRPSPDERESPS
 VKRMRLSEGWAT

TRTRPLE - GFP Tag - V

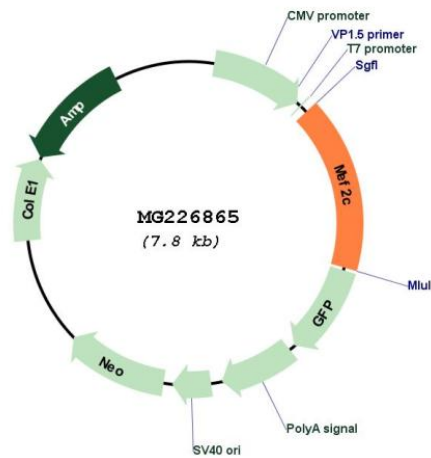
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



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:	<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_025282.3 , NP_079558.1
RefSeq Size:	6325 bp
RefSeq ORF:	1299 bp
Locus ID:	17260
UniProt ID:	Q8CFN5
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]