

Product datasheet for **RG231266**

MEF2C (NM_001193347) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEF2C (NM_001193347) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MEF2C
Synonyms:	C5DELq14.3; DEL5q14.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG231266 representing NM_001193347
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGAGAAAAAGATTACAGATTACGAGGATTATGGATGAACGTAACAGACAGGTGACATTTACAAGA
 GGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGTACTGTGAGATTGCGCTGATCAT
 CTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTCTTCTCAAGTACAG
 GAGTACAACGAGCCGCATGAGAGCCGGACAACTCAGACATCGTGGAGACGTTGAGAAAGAAGGGCCTTA
 ATGGCTGTGACAGCCAGACCCCGATGCGGACGATTCCGCATTGAACAAGAAAGAAAAACAAAGGCTGTGA
 AAGCCCCGATCCCGACTCCTTATGCACTCACCCACGCACTGAAGAAAAATACAAAAAATTAATGAA
 GAATTTGATAATATGATCAAGAGTCATAAAATTCCTGCTGTTCCACCTCCCAACTTCGAGATGCCAGTCT
 CCATCCCAGTGTCCAGCCACAACAGTTTGGTGTACAGCAACCCTGTCAGCTCACTGGGAAACCCCAACT
 ATTGCCACTGGCTCACCTTCTCTGCAGAGGAATAGTATGTCTCCTGGTGAACACATCGACCTCCAAGT
 GCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCACGTCTGGTGCAGGCACCAGTGCAGGGAACGGGT
 ATGGCAATCCCCGAAACTCACCAGTCTGCTGGTCTCACCTGGTAACTTGAACAAGAATATGCAAGCAAA
 ATCTCCTCCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTTCTTATCCACCAGGC
 AGCAAGAATACGATGCCATCAGTGAATCAAAGGATAAACTCCAGTCGGCTCAGTCATTGGCTACCC
 CAGTGGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAAC
 AACATATGGTACCGAGTACTCTCTGAGTAGTGCAGACCTGTCATCTCTGTCTGGGTTTAAACCCGCCAGC
 GCTCTTACCTTGGTTTCAGTAACTGGCTGGCAACAGCAACACCTACATAACATGCCACCATCTGCCCTCA
 GTCAGTTGGGAGCTTGCACTAGCACTCATTTATCTCAGAGTTCAAATCTCTCCCTGCCTTACTCAAAG
 CCTCAACATCAAGTCAGAACCTGTTTCTCCTCCTAGAGACCGTACCACCACCCCTTCGAGATACCCACAA
 CACACGCCACGAGGCCGGGAGATCTCCTGTTGACAGCTTGAGCAGCTGTAGCAGTTCTGACGACGGA
 GCGACCGAGAGGATCACCGGAACGAATTCACCTCCCCATTGGACTCACCGACCTTCGCCGGACGAAAG
 GAAAAGTCCCTCAGTCAAGCGCATGCGACTTTCTGAAGGATGGGCAACA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG231266 representing NM_001193347
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQVFTFKRKFGLMKKAYELSVLCDCEIALIIFNSTNKL FQYASTMDKVLKYT
 EYNEPHERTNSDIVETLRKKGLNGCDSPDPDADDSALNKKENKGCESDPDPDSSYALTPRTEEKYKINE
 EFDNMIKSHKIPAVPPPNFEMPVSI PVSSHNSLVYSNPVSSLGNPNLLPLAHPSLQRNSMSPGVTHRPPS
 AGNTGGLMGGDLTSGAGTSAGNGYGNPRNSPGLLVSPGNLNKNMQAKSPPPMNLGMNNRKPDRLVLI
 PPVSKNTMPSVNQRINNSQSAQSLATPVVSVATPTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTAS
 ALHLGSVTGWQQHLHNMPPSALSQLGACTSTHLSQSSNLSLPSTQSLNIKSEPVSPPRDRITTPSRYPQ
 HTRHEAGRSPVDSLSSCSSYDGSREDHRNEFHSPIGLTRPSPDERESPSVKRMRLSEGWAT

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001193347

ORF Size: 1449 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_001193347.1](#), [NP_001180276.1](#)

RefSeq Size: 6254 bp

RefSeq ORF: 1452 bp

Locus ID: 4208

UniProt ID: [Q06413](#)

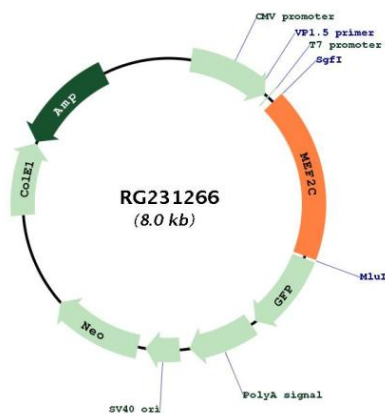
Cytogenetics: 5q14.3

Protein Families: Transcription Factors

Protein Pathways: MAPK signaling pathway

Gene Summary: This locus encodes a member of the MADS box transcription enhancer factor 2 (MEF2) family of proteins, which play a role in myogenesis. The encoded protein, MEF2 polypeptide C, has both trans-activating and DNA binding activities. This protein may play a role in maintaining the differentiated state of muscle cells. Mutations and deletions at this locus have been associated with severe cognitive disability, stereotypic movements, epilepsy, and cerebral malformation. Alternatively spliced transcript variants have been described. [provided by RefSeq, Jul 2010]

Product images:



Circular map for RG231266