

## Product datasheet for **RC231266**

### MEF2C (NM\_001193347) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEF2C (NM_001193347) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEF2C
Synonyms:	C5DELq14.3; DEL5q14.3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC231266 representing NM\_001193347  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGAGAAAAAGATTACAGTTACGAGGATTATGGATGAACGTAACAGACAGGTGACATTTACAAGA  
 GGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGTGACTGTGAGATTGCGCTGATCAT  
 CTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTGCTTCTCAAGTACACG  
 GAGTACAACGAGCCGCATGAGAGCCGGACAACTCAGACATCGTGGAGACGTTGAGAAAGAAGGGCCTTA  
 ATGGCTGTGACAGCCAGACCCCGATGCGGACGATTCCGCATTGAACAAGAAAGAAAAACAAAGGCTGTGA  
 AAGCCCCGATCCCGACTCCTTATGCACTCACCCACGCACTGAAGAAAAATACAAAAAATTAATGAA  
 GAATTTGATAATATGATCAAGAGTCATAAAATTCCTGCTTCCACCTCCCAACTTCGAGATGCCAGTCT  
 CCATCCCAGTGTCCAGCCACAACAGTTTGGTGTACAGCAACCCTGTCAGCTCACTGGGAAACCCCAACT  
 ATTGCCACTGGCTCACCTTCTCTGCAGAGGAATAGTATGTCTCCTGGTGAACACATCGACCTCCAAGT  
 GCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCACGTCTGGTGCAGGCACCAGTGCAGGGAACGGGT  
 ATGGCAATCCCCGAAACTCACCAGTCTGCTGGTCTCACCTGGAACCTGAACAAGAATATGCAAGCAAA  
 ATCTCCTCCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTTCTTATCCACCAGGC  
 AGCAAGAATACGATGCCATCAGTGAATCAAAGGATAAATAACTCCAGTCGGCTCAGTCATTGGCTACCC  
 CAGTGGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAGCCATTTCAAC  
 AACATATGGTACCGAGTACTCTCTGAGTAGTGCAGACCTGTCATCTCTGTCTGGGTTAACACCGCCAGC  
 GCTCTTACCTTGGTTCAGTAACTGGCTGGCAACAGCAACACCTACATAACATGCCACCATCTGCCCTCA  
 GTCAGTTGGGAGCTTGCCTAGCACTCATTATCTCAGAGTTCAAATCTCTCCCTGCCTTACTCAAAG  
 CCTCAACATCAAGTCAGAACCTGTTTCTCCTCCTAGAGACCGTACCACCACCCCTTCGAGATACCCACAA  
 CACACGCCACGAGGCCGGGAGATCTCCTGTTGACAGCTTGGCAGCTGTAGCAGTTCTGACGACGGGA  
 GCGACCGAGAGGATCACCGGAACGAATTCACCTCCCCATTGGACTCACCGACCTTCGCCGGACGAAAG  
 GGAAAGTCCCTCAGTCAAGCGCATGCGACTTTCTGAAGGATGGGCAACA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC231266 representing NM\_001193347  
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQVFTTKRKFGLMKKAYELSVLCDCEIALIIFNSTNKLQYASTMDKVLKLYT  
 EYNPHESTRNSDIVETLRKKGLNGCDSPDPDADDSALNKKENKGCESPDSSYALTPRTEEKYKINE  
 EFDNMIKSHKIPAVPPNFEMPVSI PVSSHNSLVYSNPVSSLGPNLLPLAHPSLQRNSMSPGVTHRPPS  
 AGNTGGLMGGDLTSGAGTSAGNGYGNRNSPGLLVSPGNLNKNMQAKSPPPMNLGMNRPDLRVLIPPG  
 SKNTMPSVNQRINNSQASQLATPVVSVATPTLPQGMMGYPSAISTTYGTEYSSLSSADLSSLSGFNTAS  
 ALHLGSVTGWQQHLHNMPPSALSQLGACTSTHLSQSSNLSLPSTQSLNIKSEPVSPDRDRTTTPSRYPQ  
 HTRHEAGRSPVDSLSSCSSYDGSREDHRNEFHSPIGL TRPSPDERESPSVKRMRLSEGWAT

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mk8062\\_h01.zip](https://cdn.origene.com/chromatograms/mk8062_h01.zip)

**Restriction Sites:**

Sgfl-Mlul

**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 ORF:** 1452 bp

**Locus ID:** 4208

**UniProt ID:** [Q06413](#)

**Cytogenetics:** 5q14.3

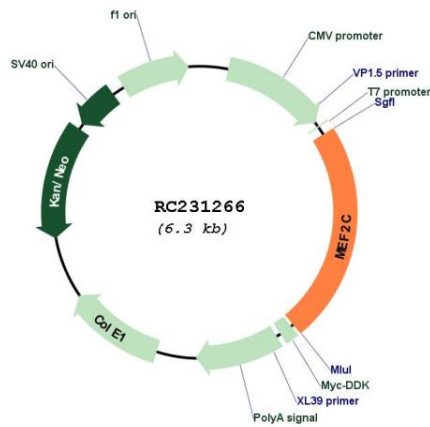
**Protein Families:** Transcription Factors

**Protein Pathways:** MAPK signaling pathway

**MW:** 52.8 kDa

**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 RC231266