

## Product datasheet for **RG225785**

### MEF2C (NM\_001131005) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MEF2C (NM_001131005) 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)



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**ORF Nucleotide Sequence:**

>RG225785 representing NM\_001131005  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGGAGAAAAAGATTACAGATTACGAGGATTATGGATGAACGTAACAGACAGGTGACATTTACAAGA  
 GGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGTACTGTGAGATTGCGCTGATCAT  
 CTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTCTTCTCAAGTACAG  
 GAGTACAACGAGCCGCATGAGAGCCGGACAACTCAGACATCGTGGAGGCATTGAACAAGAAAGAAAAACA  
 AAGGCTGTAAAGCCCCGATCCCGACTCCTCTTATGCACTCACCCACGCACTGAAGAAAAATACAAAA  
 AATTAATGAAGAATTTGATAATATGATCAAGAGTCATAAAATTCCTGCTGTTCCACCTCCCAACTTCGAG  
 ATGCCAGTCTCCATCCCAGTGTCCAGCCACAACAGTTTGGTGTACAGCAACCCTGTCAGCTCACTGGGAA  
 ACCCCAACCTATTGCCACTGGCTCACCTTCTCTGCAGAGGAATAGTATGTCTCCTGGTGAACACATCG  
 ACCTCCAAGTGCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCACGTCTGGTGCAGGCACCAGTGCA  
 GGAACCGGTATGGCAATCCCCGAAACTACCAGGTCTGCTGGTCTCACCTGGTAACTTGAACAAGAATA  
 TGCAAGCAAAATCTCTCCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTTCTTAT  
 TCCACCAGGCAGCAAGAATACGATGCCATCAGTGAATCAAAGGATAAATAACTCCAGTCGGCTCAGTCA  
 TTGGCTACCCAGTGGTTTCCGTAGCAACTCCTACTTTACCAGGACAAGGAATGGGAGGATATCCATCAG  
 CCATTTCAACAACATATGGTACCGAGTACTCTCTGAGTAGTGCAGACCTGTCATCTCTGTCTGGGTTTAA  
 CACCGCCAGCGCTCTTACCTTGGTTCAGTAACTGGCTGGCAACAGCAACACCTACATAACATGCCACCA  
 TCTGCCCTCAGTCAGTTGGGAGCTTGCCTAGCACTCATTATCTCAGAGTTCAAATCTCTCCCTGCCTT  
 CTACTCAAAGCCTCAACATCAAGTCAGAACCTGTTTCTCCTCTAGAGACCGTACCACCACCCCTTCGAG  
 ATACCCACAACACACGCGCCACGAGCGGGGAGATCTCCTGTTGACAGCTTGAGCAGCTGTAGCAGTTCCG  
 TACGACGGGAGCGACCGAGAGGATCACCGGAACGAATTCACCTCCCCATTGGACTCACCGACCTTCG  
 CGGACGAAAGGAAAGTCCCTCAGTCAAGCGCATGCGACTTTCTGAAGGATGGGCAACA

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG225785 representing NM\_001131005  
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQVFTTKRKFGLMKKAYELSVLCDCEIALIIFNSTNKL FQYASTDMKVLLKYT  
 EYNPHESTRNSDIVEALNKKENKGCESPPDPDSSYALTPRTEEKYKINEEFDNMIKSHKIPAVPPPNE  
 MPVSI PVSSHNSLVVSNPVSSLGNPNLLPLAHPSLQRNSMSPGVTHRPPSAGNTGGLMGGDLTSGAGTSA  
 GNGYGNPRNSPGLLVSPGNLNKNMQAKSPPPMNLGMNRRKPDRLVLIIPGSKNTMPSVNQRINNSQSAQS  
 LATPVVSVATPTLPGQGMGGYPSAISTTYGTEYSLSSADLSSLSGFNTASALHLGSVTGWQQHLHMPP  
 SALSQLGACTSTHLSQSSNLSLPSTQSLNIKSEPVSPPRDRTTTTPSRYPQHTRHEAGRSPVDSLSSCSSS  
 YDGS DREDHRNEFHSP IGLTRPSPDERESPSVKRMRLSEGWAT

**TR**TRPLE - GFP Tag - V

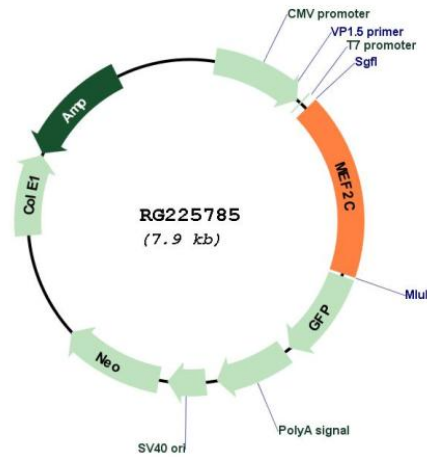
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_001131005

ORF Size: 1389 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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_001131005.2</u>
<b>RefSeq Size:</b>	6131 bp
<b>RefSeq ORF:</b>	1392 bp
<b>Locus ID:</b>	4208
<b>UniProt ID:</b>	<u>Q06413</u>
<b>Cytogenetics:</b>	5q14.3
<b>Protein Families:</b>	Transcription Factors
<b>Protein Pathways:</b>	MAPK signaling pathway
<b>Gene Summary:</b>	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]