

Product datasheet for **RG231204**

MEF2C (NM_001193349) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEF2C (NM_001193349) 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)
ORF Nucleotide Sequence:	>RG231204 representing NM_001193349 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGGGAGAAAAAGATTGAGATTACGAGGATTATGGATGAACGTAACAGACAGGTGACATTTACAAAGA
GGAAATTTGGGTTGATGAAGAAGGCTTATGAGCTGAGCGTGCTGTGTGACTGTGAGATTGCGCTGATCAT
CTTCAACAGCACCAACAAGCTGTTCCAGTATGCCAGCACCGACATGGACAAAGTCTTCAAGTACAGC
GAGTACAACGAGCCGCATGAGAGCCGGACAACTCAGACATCGTGGAGGCTGTTCCACCTCCCAACTTCG
AGATGCCAGTCTCCATCCAGTGTCCAGCCACAACAGTTTGGTGTACAGCAACCCTGTCAGCTCACTGGG
AAACCCCAACCTATTGCCACTGGCTCACCTTCTCTGCAGAGGAATAGTATGTCTCTGGTGAACACAT
CGACCTCCAAGTGCAGGTAACACAGGTGGTCTGATGGGTGGAGACCTCACGTCTGGTGCAGGCACCAAGT
CAGGGAACGGGTATGGCAATCCCGAAACTCACCAGGTCTGCTGGTCTCACCTGGTAACTGAACAAGAA
TATGCAAGCAAAATCTCCTCCCCAATGAATTTAGGAATGAATAACCGTAAACCAGATCTCCGAGTTCTT
ATTCCACCAGGCAGCAAGAATACGATGCCATCAGTGTCTGAGGATGTGACCTGCTTTTGAATCAAAGGA
TAAATAACTCCCAGTCGGCTCAGTCATTGGCTACCCAGTGGTTCCGTAGCAACTCCTACTTTACCAGG
ACAAGGAATGGGAGGATATCCATCAGCCATTTCAACAACATATGGTACCGAGTACTCTCTGAGTAGTGCA
GACCTGTATCTGTCTGGGTTAACACCGCCAGCGCTCTTACCTTGGTTTCAGTAACTGGCTGGCAAC
AGCAACACCTACATAAATGCCACCATCTGCCCTCAGTCAGTTGGGAGACCGTACCACCACCCCTTCGAG
ATACCCACAACACACGCGCCACGAGGCGGGGAGATCTCCTGTTGACAGCTTGAGCAGCTGTAGCAGTTCCG
TACGACGGGAGCGACCGAGAGGATCACCAGCAAGTTCACCTCCCCATTGGACTCACCAGACCTTCG
CGGACGAAAGGGAAAGTCCCTCAGTCAAGCGCATGCGACTTTCTGAAGGATGGGCAACA

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG231204 representing NM_001193349
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQVTFTRKRFGLMKKAYELSVLCDCEIALIIFNSTNKL FQYASTDMDKVLKKT
 EYNPHESTRNSDIVEAVPPNFEMPVSI PVSSHNSLVYSNPVSSLGNPNLLPLAHP SLQRNSMSPGVTH
 RPPSAGNTGGLMGDDL TSGAGTSAGNGYGNRNSPGLL VSPGNLNKNMQAKSPPPMNLGMNRPDLRVL
 IPPGSKNTMPSVSEDDVLLLLNQRINNSQSAQSLATPVVSVATPTLPGQGMGGYPSAISTTYGTEYLSLSSA
 DLSSLSGFNTASALHLGSVTGWQQQHLHNMPPSALSQ LGDRTTTPSRYPQHRHEAGRSPVDSLSSCSSS
 YDGS DREDHRNEFHSP IGLTRPSPDERESPSVKRMRLSEGWAT

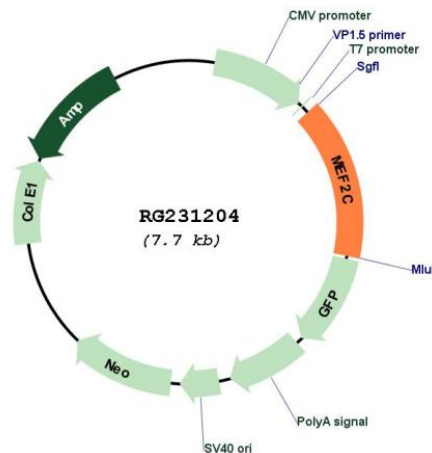
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001193349

ORF Size:	1179 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_001193349.2
RefSeq Size:	5694 bp
RefSeq ORF:	1182 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]