

Product datasheet for **RG225702**

MEF2A (NM_001130928) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: MEF2A (NM_001130928) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: MEF2A
Synonyms: ADCAD1; mef2; RSRFC4; RSRFC9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG225702 representing NM_001130928
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGCGGAAGAAAATACAAATCACACGCATAATGGATGAAAGGAACCGACAGACTTTAAGAAAGAAAG
 GCCTTAATGGTTGTGAGAGCCCTGATGCTGACGATTACTTTGAGCACAGTCCACTCTCGGAGGACAGATT
 CAGCAAATAAATGAAGATAGTGATTTTATTTCAAACGAGGCCCTCCTGGTCTGCCACCTCAGAATTT
 TCAATGTCTGTACAGTCCAGTGACCAGCCCAATGCTTTGTCCTACACTAACCAGGGAGTTCCTG
 TGTCCTCATCTTTGGCAGCCAGCTCAACGTTAACAGATCAAGCATGCTCTCTCCACCTCAAACACATT
 ACATAGAAATGTGTCTCCTGGAGCTCCTCAGAGACCACCAAGTACTGGCAATGCAGGTGGGATGTTGAGC
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 CTTCTCCAAATTTGATTGGAGCTACTGGTGCAAAATAGCTTAGGCAAAGTCATGCCTACAAAGTCTCCCC
 TCCACCAGGTGGTGGTAATCTTGGAAATGAACAGTAGGAAACCAGATCTTCGAGTTGTATCCCCCTTCA
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 CAGCAGCCCGCCACCACCGCAGCCCCAGCCACAACCCCGCAGCCCCAGCCCCGACAGGAAATGGGGC
 GCTCCCCGTGGACAGTCTGAGCAGCTCTAGTAGCTCCTATGATGGCAGTGATCGGGAGGATCCACGGGG
 CGACTTCCATTCTCAATTGTGCTTGGCCGACCCCAACTGAGGACAGAGAAAGCCCTTCTGTAAAG
 CGAATGAGGATGGACGCGTGGTGACC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG225702 representing NM_001130928
 Red=Cloning site Green=Tags(s)

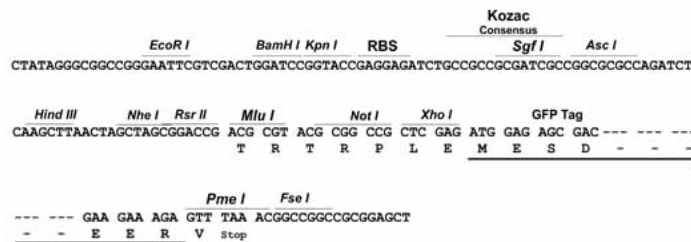
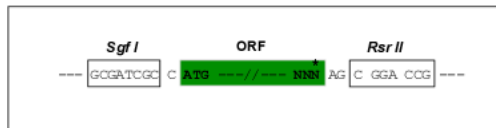
MGRKKIQITRIMDERNRQTLRKKGLNGCESPDADDYFEHSPLSEDRF SKLNEDSDFIFKRGPPLPPQNF
 SMSVTVPVTSPNALSYTNPGSSLVSPSLAASSTLTDSSMLSPQTTLHRNVSPGAPQRPSTGNAGGMLS
 TTDLTPVNGAGSSPVGNFVNSRASPNLIGATGANS LGKVMPTKSPPPP GGGNLGMNSRKPDLRVVIPPS
 SKGMMPPLNTQRISSSQATQPLATPVVSVTTPSLPPQGLVYSAMPTAYNTDYSLTSADLSALQGFNSPGM
 LSLGQVSAWQQHHLGQAALSSLVAGQLSQGSNLSINTNQNISIKSEPI SPPDRMTPSGFQQQQQQQQ
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SGPTRRRLE - GFP Tag - V

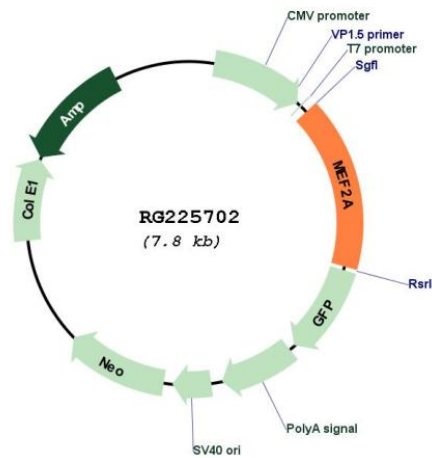
Restriction Sites: SgfI-RsrII

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001130928

ORF Size:	1287 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_001130928.1 , NP_001124400.1
RefSeq Size:	5100 bp
RefSeq ORF:	1290 bp
Locus ID:	4205
UniProt ID:	Q02078
Cytogenetics:	15q26.3
Protein Families:	Transcription Factors
Gene Summary:	The protein encoded by this gene is a DNA-binding transcription factor that activates many muscle-specific, growth factor-induced, and stress-induced genes. The encoded protein can act as a homodimer or as a heterodimer and is involved in several cellular processes, including muscle development, neuronal differentiation, cell growth control, and apoptosis. Defects in this gene could be a cause of autosomal dominant coronary artery disease 1 with myocardial infarction (ADCAD1). Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jan 2010]