

## Product datasheet for **RC225702**

### **MEF2A (NM\_001130928) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	MEF2A (NM_001130928) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	MEF2A
Synonyms:	ADCAD1; mef2; RSRFC4; RSRFC9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC225702 representing NM\_001130928  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCGGAAGAAAATACAAATCACACGCATAATGGATGAAAGGAACCGACAGACTTTAAGAAAGAAAG  
 GCCTTAATGGTTGTGAGAGCCCTGATGCTGACGATTACTTTGAGCACAGTCCACTCTCGGAGGACAGATT  
 CAGCAAATAAATGAAGATAGTGATTTTATTTCAAACGAGGCCCTCCTGGTCTGCCACCTCAGAACTTT  
 TCAATGTCTGTACAGTTCAGTGACCAGCCCAATGCTTTGTCTACACTAACCAGGGAGTTCAGTGG  
 TGTCCCATCTTTGGCAGCCAGCTCAACGTTAACAGATTCAAGCATGCTCTCCACCTCAAACCACATT  
 ACATAGAAATGTGTCTCCTGGAGCTCCTCAGAGACCACCAAGTACTGGCAATGCAGGTGGGATGTTGAGC  
 ACTACAGACCTCACAGTGCCAAATGGAGCTGGAAGCAGTCCAGTGGGGAATGGATTTGTAAACTCAAGAG  
 CTTCTCCAAATTTGATTGGAGCTACTGGTGCAATAGCTTAGGCAAAGTCATGCCTACAAAGTCTCCCC  
 TCCACCAGGTGGTGGTAATCTTGAATGAACAGTAGGAAACCAGATCTTCGAGTTGTCATCCCCCTTCA  
 AGCAAGGGCATGATGCCTCCACTAAATACCCAGAGGATCAGTAGTTCTCAAGCCACTCAACCTCTTGCTA  
 CCCCAGTCGTGTCTGTGACAACCCCAAGCTTGCCTCCGCAAGGACTTGTGTAAGTACTCAGCAATGCCGACTGC  
 CTACAACACTGATTATCACTGACCAGCGCTGACCTGTGAGCCCTTCAAGGCTTCAACTCGCCAGGAATG  
 CTGTGCGTGGGACAGGTGTGGCCTGGCAGCAGCACCCTAGGACAAGCAGCCCTCAGCTCTCTTGTG  
 CTGGAGGGCAGTTATCTCAGGGTTCCAATTTATCCATTAATACCAACCAAAACATCAGCATCAAGTCCGA  
 ACCGATTTACCTCCTCGGGATCGTATGACCCCATCGGGCTTCCAGCAGCAGCAGCAGCAGCAGCAGCAG  
 CAGCAGCCGCCACCACCCGAGCCCAACCAACCCCGCAGCCCGACAGGAAATGGGGC  
 GCTCCCCTGTGGACAGTCTGAGCAGCTAGTAGCTCCTATGATGGCAGTGATCGGGAGGATCCACGGGG  
 CGACTTCCATTCTCAATTGTGCTTGGCCGACCCCAACACTGAGGACAGAGAAAGCCCTTCTGTAAG  
 CGAATGAGGATGGACGCGTGGTGACC

AG**CGGACCG**ACGCGTACGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCC  
 TGGATTACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

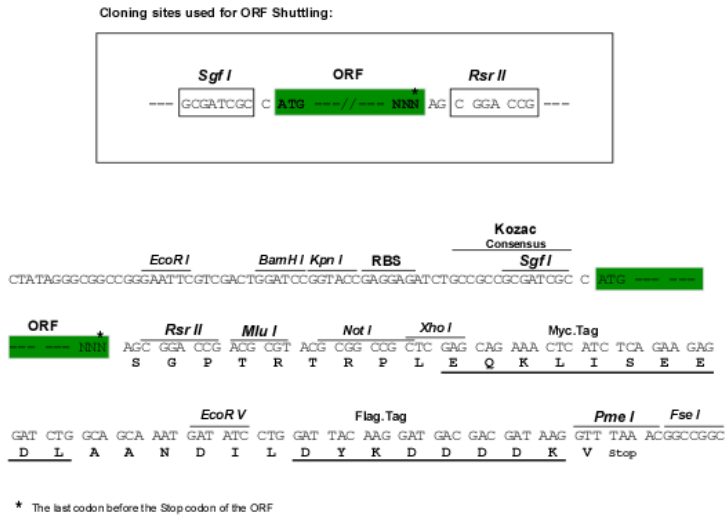
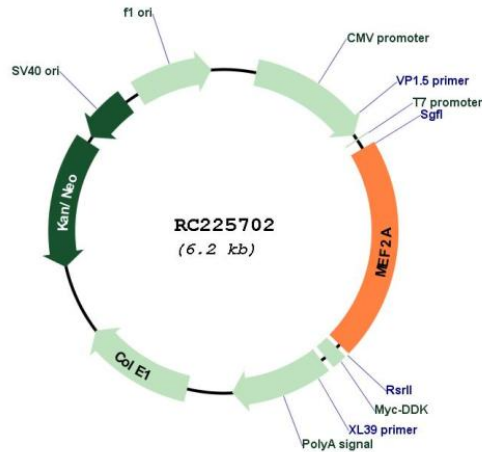
>RC225702 representing NM\_001130928  
 Red=Cloning site Green=Tags(s)

MGRKKIQITRIMDERNRQTLRKKGLNGCESPDADDYFEHSPLSEDRFSKLNEDSDFIFKRGPPGLPPQNF  
 SMSVTVPVTPNALSYTNPGSSLVSPSLAASSTLTDSSMLSPQTTLHRNVSPGAPQRPSTGNAGGMLS  
 TTDLTVPNGAGSSPVGNFVNSRASPNLIGATGANSLGKVMPTKSPPPPGGNLGMNSRKPDLRVVPPS  
 SKGMMPLNTQRISSSQATQPLATPVVSVTTPSLPPQGLVYSAMPYNTDYSLTSADLSALQGFNSPGM  
 LSLGQVSAWQQHHLGQAALSSLVAGGQLSQGSNLSINTNQNISIKSEPISPPRDRMTPSGFQQQQQQQQ  
 QPPPPPPQPQPQPQPRQEMGRSPVDSLSSSSSYDGSREDPRGDFHSPIVLGRPPNTEPRESVSK  
 RMRMDAWVT

SGP**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-RsrII

**Cloning Scheme:**

**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.

<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_001130928.2, NP_001124400.1</u>
<b>RefSeq Size:</b>	5167 bp
<b>RefSeq ORF:</b>	1290 bp
<b>Locus ID:</b>	4205
<b>UniProt ID:</b>	<u>Q02078</u>
<b>Cytogenetics:</b>	15q26.3
<b>Protein Families:</b>	Transcription Factors
<b>MW:</b>	45.6 kDa
<b>Gene Summary:</b>	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]