

## Product datasheet for **RG225717**

### MEF2A (NM\_001130927) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MEF2A (NM\_001130927) 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:** >RG225717 representing NM\_001130927  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGGGCGGAAGAAAATACAAATCACACGCATAATGGATGAAAGGAACCGACAGACTTTAAGAAAGAAAG  
 GCCTTAATGGTTGTGAGAGCCCTGATGCTGACGATTACTTTGAGCACAGTCCACTCTCGGAGGACAGATT  
 CAGCAAATAAATGAAGATAGTGATTTTATTTCAAACGAGGCCCTCTGGTCTGCCACCTCAGAATTT  
 TCAATGTCTGTACAGTCCAGTGACCAGCCCAATGCTTTGTCCTACACTAACCAGGGAGTTCAGTGG  
 TGTCGCCATCTTTGGCAGCCAGCTCAACGTTAACAGATTCAAGCATGCTCTCTCCACCTCAAACCACATT  
 ACATAGAAATGTGTCTCCTGGAGCTCCTCAGAGACCACCAAGTACTGGCAATGCAGGTGGGATGTTGAGC  
 ACTACAGACCTCACAGTGCCAAATGGAGCTGGAAGCAGTCCAGTGGGGAATGGATTTGTAAACTCAAGAG  
 CTTCTCCAAATTTGATTGGAGCTACTGGTGCAAAATAGCTTAGGCAAAGTCATGCCTACAAAGTCTCCCC  
 TCCACCAGGTGGTGGTAATCTTGGAATGAACAGTAGGAAACCAGATCTTCGAGTTGTCAATCCCCCTTCA  
 AGCAAGGGCATGATGCCTCCACTATCGGAGGAAGAGGAATTGGAGTTGAATACCCAAAGGATCAGTAGTT  
 CTCAAGCCACTCAACCTCTTGCTACCCAGTCGTGTCTGTGACAACCCCAAGCTTGCCCTCCGCAAGGACT  
 TGTGTACTCAGCAATGCCGACTGCCTACAACACTGATTATCACTGACCAGCGCTGACCTGTCCAGCCCTT  
 CAAGGCTTCAACTCGCCAGGAATGCTGCTGGGACAGGTGTGCGCTGGCAGCAGCACCACCTAGGAC  
 AAGCAGCCCTCAGCTCTTTGTTGCTGGAGGGCAGTTATCTCAGGGTTCCAATTTATCCATTAATACCAA  
 CCAAAACATCAGCATCAAGTCCGAACCGATTTACCTCCTCGGGATCGTATGACCCCATCGGGCTTCCAG  
 CAGC  
 CCCAGCCCGACAGGAAATGGGGCGCTCCCCTGTGGACAGTCTGAGCAGCTCTAGTAGCTCCTATGATGG  
 CAGTGATCGGGAGGATCCACGGGGCGACTTCCATTCTCCAATTGTGCTTGGCCGACCCCAACACTGAG  
 GACAGAGAAAGCCCTTCTGTAAGCGAATGAGGATGGACGCGTGGGTGACC

AGCGGACCGACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >RG225717 representing NM\_001130927  
 Red=Cloning site Green=Tags(s)

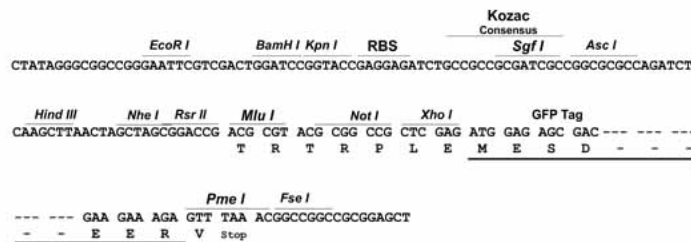
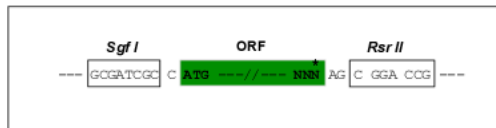
MGRKKIQITRIMDERNRQTLRKKGLNGCESPDADDYFEHSPLSEDRFSKLNEDSDFIFKRGPPGLPPQNF  
 SMSVTVPVTPSPNALSYTNPGSSLVSPSLAASSTLTDSSMLSPQTTLHRNVSPGAPQRPSTGNAGGMLS  
 TTDLTPVNGAGSSPVGNFVNSRASPNLIGATGANS�KGVMPTKSPPPPGGNLMNSRKPDLRVVIPPS  
 SKGMMPPLSEEELELNTQRISSSQATQPLATPVVSVTTPSLPPQGLVYSAMPTAYNTDYS�TSADLSAL  
 QGFNSPGMLS�GQVSAWQHHLQQAALSSLVAGGQLSQGSNLSINTNQNISIKSEPI SPPDRMTPSGFQ  
 QQQQQQQQPPPPPPQPQPQPQPRQEMGRSPVDSLSSSSSYDGSREDPRGDFHSPIVLGRPPNTE  
 DRESPSVKRMRMDAWVT

SGPTRRRLE – GFP Tag – V

**Restriction Sites:** SgfI-RsrII

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**ACCN:** NM\_001130927

**ORF Size:** 1311 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\\_001130927.1](#), [NP\\_001124399.1](#)

**RefSeq Size:** 5301 bp

**RefSeq ORF:** 1314 bp

**Locus ID:** 4205

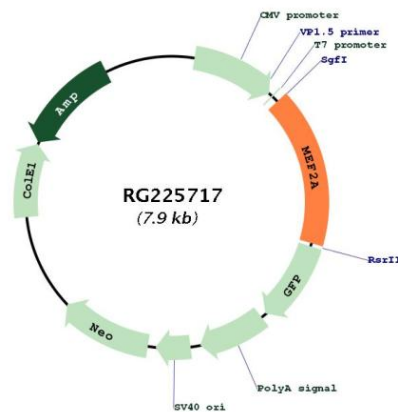
**UniProt ID:** [Q02078](#)

**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]

### Product images:



Circular map for RG225717