

Product datasheet for **SC310307**

MEF2A (NM_005587) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MEF2A (NM_005587) Human Untagged Clone
Tag:	Tag Free
Symbol:	MEF2A
Synonyms:	ADCAD1; mef2; RSRFC4; RSRFC9
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene sequence for NM_005587 edited
CCGGGATATCGTCGACCCACGCGTCCGGTCCCGGCGAGTCCCGGGCTGAAAGAGGCGGCT
CCGGGGCGGCGGAAGCGCTGGTGGCGGGCCCGGCTGCGGCGTGTGCGCGCCCGCAGCT
GCTCCGGAGATACGGAATTGCATTTTGTGAAAAAGAACAAGAATTTTCTGCAAGGATCA
TATCTAAGTGCACCTTTTGTGATACTTCATTTCTAATCTTGTAGAAAATTTAGCTGTA
GCCCTTGGACTAGAAGCTGAAATAACAGAAGCTGTGTACGATGCATTAGGGTATTGAAGA
AAATTAACCTTTTGAATTAATATTTGGAATATAAGGAAATAAGGAAAGTTGACTGAAAA
GGGGCGGAAGAAAATACAAATCACACGCATAATGGATGAAAGGAACCGACAGGTCACTTT
TACAAAGAGAAAAGTTTGATTAATGAAGAAAGCCTATGAACTTAGTGTGCTCTGTGACTG
TGAAATAGCACTCATCATTTTCAACAGCTCTAACAAACTGTTTCAATATGCTAGCACTGA
TATGGACAAAGTTCTTCTCAAGTATACAGAATATAATGAACCTCATGAAAGCAGAACCAA
CTCGGATATTGTTGAGGCTCTGAACAAGAAGGAACACAGAGGGTGCACAGCCCAGACCC
TGATACTTCATATGTGCTAACTCCACATACAGAAGAAAAATATAAAAAATTAATGAGGA
ATTTGATAATATGATGCGGAATCATAAAATCGCACCTGGTCTGCCACCTCAGAACTTTTC
AATGTCTGTACAGTTCAGTGACCAGCCCAATGCTTTGCTCCTACACTAACCCAGGGAG
TTCACCTGGTGTCCCATCTTTGGCAGCCAGCTCAACGTTAACAGATTCAAGCATGCTCTC
TCCACCTCAAACCACTTACATAGAAATGTGTCTCCTGGAGCTCCTCAGAGACCACCAAG
TACTGGCAATGCAGGTGGGATGTTGAGCACTACAGACCTCACAGTGCCAAATGGAGCTGG
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CAAGGGCATGATCCCTCCACTATCGGAGGAAGAGGAATTGGAGTTGAACACCCAAAGGAT
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CTTGCTCCGCAAGGACTTGTGTACTCAGCAATGCCGACTGCCTACAACACTGATTATTC
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GGGACAGGTGTGGCCTGGCAGCAGCACCACTAGGACAAGCAGCCCTCAGCTCTCTTGT
TGCTGGAGGGCAGTTATCTCAGGGTTCCAAATTTATCCATTAATACCAACCAAAACATCAG
CATCAAGTCCGAACCGATTTACCTCCTCGGGATCGTATGACCCCATCGGGCTTCCAGCA
GCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCCGCCACCACCGCAGCCCCAGCCACAACC
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TACATACATATATATCCCTTTACATATATATGTATGTGGGTGTGAGTGTGTGTATG
TGTGGGTGTGTGTACATACACAGAATCAGGCCTTACCTGCAAACCTCCTGTAGGTCTG
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CAGTGACTGTAGTTACTTAAGAGAAAATGCTTTGTAGAACAGAGCAGTAGAAAAGCAGGA
ACCAAGAAAGCAATACTGTACATAAAAATGTCATTTATATTTTCCAACTGGCATGGGTGT
CTGTTGCAAAGGGGTGCATGGGAAAGGGCTGTTGATATTAACAAACAAACAAAAACAAAA
GCCCCACACATAACTGTTTTGCACGTGCAAAAATGATTGGGTCAAGAAGTATCTTTAG
CTAATAAAGAAAGAGAATAGAAAACACGCATGAGATATTCAGAAAATACTAGCCTAGAAA
TATAGAGCATTAAACAAAGKAAAATTAATATATTAAGTTATAATTGGAATATGTCAGAAGT
TTCTTTTTACATTCATATCTTAAAAATTAAGAAACTGATTTTAGCTCATGTATATTTTA
TATGAAAGAAAACACCCCTTATGAATTGACTATATATAAAATTAATTTCACTACTTTT
GAAAAAAAAAAAAAAAAA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_005587 unedited</p> <pre>TGCAGTTCGTATTGTATACGACTCATATAGGCGGCCGCTATTCCCGGGATATCGTCGA CCCACGCGTCCGGTCCCGGCGAGTCCCGGGCTGAAAGAGCGGCTCCGGGCGGCGGAAGC GCTGGTGGCGGGCCCGGGCTGCGGCGTGTGCGCGCCCGCCAGCTGCTCCGGAGATACGGA ATTGCATTTTGTGAAAAAGAACAAGAATTTCTGCAAGGATCATATCTAAGTGCACCTTT TTGCTGATACTTCATTTCTAATCTTGTAGAAAAATTTTCAGCTGTAGCCCTTGGACTAGAAG CTGAAATAACAGAAGCTGTGTACGATGCATTAGGGTATTGAAGAAAATTAACCTTTTGAAT TAAATATTTGGAATATAAGGAAATAAGGAAAGTTGACTGAAAATGGGGCGGAAGAAAATA CAAATCACACGCATAATGGATGAAAGGAACCGACAGGTCACTTTTACAAAGAGAAAAGTTT GGATTAATGAAGAAAGCCTATGAACTTAGTGTGCTCTGTGACTGTGAAATAGCACTCATC ATTTTCAACAGCTCTAACAACTGTTTCAATATGCTAGCACTGATATGGACAAAGTTCTT CTCAAGTATACAGAATATAATGAACCTCATGAAAGCAGAACCAACTCGGATATTGTTGAG GCTCTGAACAAGAAGGAACACAGAGGGTGCACAGCCAGACCCTGATACTTCATATGTG CTAACTCCACATACNGAAGAAAAATATAAANAATTAATGAGGAATTTGATAATATGATG CGGAATCATAAAATCGCACCTGGTCTGCCACCTCAGAACTTTTCAATGTCTGTACAGTT CCAGTGACCAGCCCCATGCTTTGTCTTACTAACCAGGAGTCACTGGTGTCCCAT CTTTCAGCCCCG</pre>
Restriction Sites:	NotI-NotI
ACCN:	NM_005587
Insert Size:	2900 bp
OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
OTI Annotation:	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
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_005587.1](#), [NP_005578.1](#)

RefSeq Size: 2975 bp

RefSeq ORF: 1524 bp

Locus ID: 4205

UniProt ID: [Q02078](#)

Cytogenetics: 15q26.3

Domains: MADS

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]
Transcript Variant: This variant (1) lacks multiple, in-frame coding exons and uses an alternate coding exon, compared to transcript variant 6. These differences result in a shorter isoform (1), compared to isoform 5. Sequence Note: This RefSeq record was created from transcript and genomic sequence data because no single transcript was available for the full length of the gene. The extent of this transcript is supported by transcript alignments.