

## Product datasheet for **SC118663**

### ME1 (NM\_002395) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ME1 (NM_002395) Human Untagged Clone
Tag:	Tag Free
Symbol:	ME1
Synonyms:	HUMNDME; MES
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF within SC118663 sequence for NM\_002395 edited (data generated by NextGen Sequencing)

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ATGGAGCCCGAAGCCCCCGTCGCCGCCACCCATCAGCGCGGCTACCTGCTGACACGG
AACCTCACCTCAACAAGGACTTGGCCTTACCCTGGAAGAGAGACAGCAATTGAACATT
CATGGATTGTTGCCACCTTCCTCAACAGTCAGGAGATCCAGGTTCTTAGAGTAGTAAAA
AATTCGAGCATCTGAACTCTGACTTTGACAGGTATCTTCTTAATGGATCTCCAAGAT
AGAAATGAAAAACTCTTTTATAGAGTGTGACATCTGACATTGAGAAATTCATGCCTATT
GTTTATACTCCCACTGTGGGTCTGGCTTGCCAACAATATAGTTTGGTGTTCGGAAGCCA
AGAGGTCTCTTTATTACTATCCACGATCGAGGGCATATTGCTTCAGTTCTCAATGCATGG
CCAGAAGATGTCATCAAGGCCATTGTGGTGACTGATGGAGAGCGTATTCTTGGCTTGGGA
GACCTTGGCTGTAATGGAATGGGCATCCCTGTGGGTAATTGGCTCTATATACAGCTTGC
GGAGGGATGAATCCTCAAGAATGTCTGCCTGTCATTCTGGATGTGGGAACCGAAAATGAG
GAGTTACTTAAAGATCCACTCTACATTGGACTACGGCAGAGAAGAGTAAGAGGTTCTGAA
TATGATGATTTTTGGACGAATTCATGGAGGCAGTTTCTTCCAAGTATGGCATGAATTGC
CTTATTCAGTTTGAAGATTTTGCCAATGTGAATGCATTTTCGTCTCCTGAACAAGTATCGA
AACCAGTATTGCACATTCATGATGATATTCAAGGAACAGCATCTGTTGCAGTTGCAGGT
CTCCTTGCACTCTTCAATAACCAAGAACAACACTGTCTGATCAAACTACTATTCCAA
GGAGCTGGAGAGGCTGCCCTAGGGATTGCACACCTGATTGTGATGGCCTTGGAAAAAGAA
GGTTTACCAAAAGAGAAAGCCATCAAAAAGATATGGCTGGTTGATTCAAAAGGATTAATA
GTTAAGGGACGTGCTTCCCTAACACAAGAGAAAGAGAAGTTTGCCCATGAACATGAAGAA
ATGAAGAACCTAGAAGCCATTGTTCAAGAAATAAAACCAACTGCCCTCATAGGAGTTGCT
GCAATTTGGTGGTGCATTCTCAGAACAAATCTCAAAGATATGGCTGCCTCAATGAACGG
CCTATTATTTTTGCTTTGAGTAATCCAAGTCAAGCAAGCAGAAATGTTCTGCAGAGCATGC
TACAAAAATAACCAAGGGACGTGCAATTTTTGCCAGTGGCAGTCCCTTTGATCCAGTCACT
CTTCAAAATGGACAGACCCTATATCCTGGCCAAGCAACAATTCCTATGTGTTCCCTGGA
GTTGCTCTTGGTGTGTGGCGTGTGGATTGAGGCAGATCACAGATAATATTTTCTCACT
ACTGCTGAGGTTATAGCTCAGCAAGTGTGAGATAAACACTTGGAAAGGGTGGGCTTTAT
CCTCCTTTGAATACCATTAGAGATGTTTCTCTGAAAATTCAGAAAAGATTGTGAAAGAT
GCATACCAAGAAAAGACAGCCACAGTTTATCCTGAACCGCAAAACAAGAAAGCATTGTGC
CGCTCCCAGATGTATAGTACTGATTATGACCAGATTCTACCTGATTGTTATTCTTGGCCT
GAAGAGGTGCAGAAAATACAGACCAAGTTGACCAGTAG
    
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Clone variation with respect to NM\_002395.4

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_002395 unedited

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AACATTTGTATACGACTCACTATAGGGCGGCCGGAATTCGCACGAGGCGCCGCCCCAC
AGCTGCAGTCAGCACCGTCACCCAGCAGCATCCGCCCGCTGCACCGCGCGTGGGCCCCG
CCCCGGCCTGACCCCGCCGAACCCGCGCCAGCCATGGAGCCCGAAGCCCCCGTCCG
CCGCCACACCCATCAGCGCGGCTACCTGCTGACACGGAACCTCACCTCAACAAGGACTT
GGCCTTACCCTGGAAGAGAGACAGCAATTGAACATTCATGGATTGTTGCCACCTTCCTT
CAACAGTCAGGAGATCCAGGTTCTTAGAGTAGTAAAAATTTTCGAGCATCTGAACTCTGA
CTTTGACAGGTATCTTCTTAAATGGATCTCCAAGATAGAAATGAAAACTCTTTTATAG
AGTGCTGACATCTGACATTGAGAAATTCATGCCTATTGTTTATACTCCCACTGTGGGTCT
GGCTTGCCAACAATATAGTTTGGTGTTCGGAAGCCAAGAGGTCTCTTTATTACTATCCA
CGATCGAGGGCATATTGCTTCAGTTCTCAATGCATGGCCAGAAGATGTCATCAAGGCCAT
TGTGGTACTGATGGAGAGCGTATTCTTGGCTTGGGAGACCTTGCTGTAAATGGAATGGG
CATCCCTGTGGGTAATTTGGCTCTATATACAGCTTGCAGGAGGATGAATCCTCAAGATGT
CTGCCTGTCACTTGGATGTGGGAACCGAAATGANGAGTTACTTNAAGACCACTCTACAT
TGGACTACNGCAGAGAAGAAGTAGAAGTTCTGATATGATGATTNNTTGGACGAATTCATG
GAGGCAGTTTCTCCAGTATGGCATGAATTGCCTATTTCAGNTTGAAGAATTNTGCCAAT
GTGAATGGCATTTCGTCTCCCTGAACAGTATCGAAAACAGTATTGCACATTNCATG
    
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<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_002395 unedited CTATGGACCGGCGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTGAGTTTAAAT GTTGGTTATGTCAATTTATTAGTAATTTTGGTCTTCCCATTAGTGTCTGTATAAAAATG ATGAGTTTCTCCGTAGTACGTACAACAGCTTTTAAAGAGAACGTAGGCAGAATAATTCAG ACAGAAACCATAAATAACCAGAAGGCAAAGTGAAGCAAATTTGTCTCATGTGATGTTTAT CCCAATTTATATCGATATTCTTCTATCAATTTTTAGACTGTTAAAGTAAAATCTTAATCT AAGTGTCTTATGAATCATTATAAAAAGATTCCAACCTTTAAAAATTATGAAAGGTTTAAAG ACCTCATTAATAGAGTTAGAAATGTTTGTATTATCCTACTGGTCAACTTTGGTCTGTAT TTTCTGCACCTCTTCAGGCCAAGAATAACAATCAGGTAGAATCTGGTCATAATCAGTACT ATACATCTGGGAGCGGACAAATGCTTCTTTGTTTTGCGGTTCCAGGATAAACTGTGGCTGT CTTTTCTGGTATGCATCTTTCACAATCTTTCTGCAATTTTCAGAGAAACATCTCTAAT GGTATTCAAAGGAGGATAAAGCCGACCCTCTCCAAGTGTATCTGACACTTGCTGAGC TATAACCTCAGCAGTAGTGAGGAAAATATTATCTGTGATCTGCCTCAATCCACACGCCAC AACACCAAGGCAACTCCAGGGAACACATANGAATTGGTGCCTTGCCAGNATATAGGGT CTGTCCATTTGGAAGATGACTGGATCAAAGGACTGCCACTGGCAAATTCACGTCCTT GGGTATTTGTAGCACTGCTCTGCAAACATTCTGTTTGCTAGNTGGATACTCAAACAAAAT AATAGCCGTCATTGAAGGCACCATACTTTTGAATTGTCTGGGAAGCCCACCATGCGCAC TCTTGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_002395
<b>Insert Size:</b>	2100 bp
<b>OTI Disclaimer:</b>	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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.  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. <a href="#">More info</a>
<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>	<a href="#">NM_002395.2</a> , <a href="#">NP_002386.1</a>

RefSeq Size:	2212 bp
RefSeq ORF:	1719 bp
Locus ID:	4199
UniProt ID:	<a href="#">P48163</a>
Cytogenetics:	6q14.2
Domains:	malic
Protein Pathways:	Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism
Gene Summary:	This gene encodes a cytosolic, NADP-dependent enzyme that generates NADPH for fatty acid biosynthesis. The activity of this enzyme, the reversible oxidative decarboxylation of malate, links the glycolytic and citric acid cycles. The regulation of expression for this gene is complex. Increased expression can result from elevated levels of thyroid hormones or by higher proportions of carbohydrates in the diet. [provided by RefSeq, Jul 2008]