

## Product datasheet for **SC320569**

### 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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_002395.3  
 GTCACCCAGCAGCATCCGCCGCTGCACCGCGGTGCGGCCCGCCCGCCTGACCCCG  
 CCGCCGAACCCGGCGCCAGCCATGGAGCCCGAAGCCCCCGTCGCGCCACCCATCAG  
 CGCGGCTACCTGCTGACACGGAACCCCTCACCTCAACAAGGACTTGGCCTTTACCCTGAA  
 GAGAGACAGCAATTGAACATTCATGGATTGTTGCCACCTTCCTTCAACAGTCAGGAGATC  
 CAGGTTCTTAGAGTAGTAAAAATTTTCGAGCATCTGAACCTGACTTTGACAGGTATCTT  
 CTCTTAATGGATCTCAAGATAGAAATGAAAACTCTTTTATAGAGTGCTGACATCTGAC  
 ATTGAGAAATTCATGCCTATTGTTTATACTCCCCTGTGGGTCTGGCTTGCCAACAATAT  
 AGTTTGGTGTTCGGAAGCCAAGAGGTCTCTTTTACTACTCCACGATCGAGGGCATATT  
 GCTTCAGTTCTCAATGCATGGCCAGAAGATGTCATCAAGGCCATTGTGGTGACTGATGGA  
 GAGCGTATTCTTGGCTTGGGAGACCTTGGCTGTAATGGAATGGGCATCCCTGTGGGTAA  
 TTGGCTCTATACAGCTTGGGAGGGATGAATCCTCAAGAAATGCTGCCTGTCATTCTG  
 GATGTGGGAACCGAAAAAGAGGTTACTTAAAGATCCACTCTACATTGGACTACGGCAG  
 AGAAGAGTAAGAGGTTCTGAATATGATGATTTTTTGGACGAATTCATGGAGGCAGTTTCT  
 TCCAAGTATGGCATGAATTGCCTTATTCAGTTTGAAGTTTTGCCAATGTGAATGCATTT  
 CGTCTCCTGAACAAGTATCGAAACCAGTATTGCACATTCATGATGATATTCAAGGAACA  
 GCATCTGTTGCAGTTGCAGGTCTCCTTGCAGCTCTTCAATAACCAAGAACAACCTGTCT  
 GATCAACAATACTATTCCAAGGAGCTGGAGAGGCTGCCCTAGGGATTGCACACCTGATT  
 GTGATGGCCTTGGAAAAAGAGGTTTACCAAAAGAGAAAGCCATCAAAAAGATATGGCTG  
 GTTGATTCAAAAGGATTAATAGTTAAGGGACGTGCTTCTTAAACAAGAGAAAGAGAAG  
 TTTGCCCATGAACATGAAGAAATGAAGAACCTAGAAGCCATTGTTCAAGAAATAAAACCA  
 ACTGCCCTCATAGGAGTTGCTGCAATGGTGGTGCATTCTCAGAACAAATCTCAAAGAT  
 ATGGCTGCCTTCAATGAACGGCCTATTATTTTTGCTTTGAGTAATCCAAGTACAAAGCA  
 GAATGTTCTGCAGAGCAGTGTACAAAATAACCAAGGGACGTGCAATTTTTGCCAGTGGC  
 AGTCTTTTTGATCCAGTCACTCTTCAAAATGGACAGACCCTATATCCTGGCCAAGGCAAC  
 AATTCCTATGTGTTCCCTGGAGTTGCTCTTGGTGTGTTGGCGTGTGGATTGAGGCAGATC  
 ACAGATAATATTTTCTCACTACTGCTGAGGTTATAGCTCAGCAAGTGTGAGATAAACAC  
 TTGGAAGAGGGTCGGCTTTATCCTCCTTGAATACCATTAGAGATGTTTCTGAAAATT  
 GCAGAAAAGATTGTGAAAGATGCATACCAAGAAAAGACAGCCACAGTTTATCCTGAACCG  
 CAAAACAAGAAGCATTGTCCGCTCCCAGATGTATAGTACTGATTATGACCAGATTCTA  
 CCTGATTGTTATCTTGGCCTGAAGAGGTGCAGAAAATACAGACCAAAGTTGACCAGTAG  
 GATAATAGCAAACATTTCTAACTCTATTAATGAGGTCTTTAAACCTTTTATAATTTTTAA  
 AGGTTGGAATCTTTTATAATGATTCATAAGACACTTAGATTAAGATTTTACTTTAACAGT  
 CTAATAATGATAGAAGAATATCGATATAAATTGGGATAAACATCACATGAGACAAAAAA  
 AAAAAAAAAA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_002395  
**Insert Size:** 2000 bp

<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	<p>This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.</p>
<b>Components:</b>	<p>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).</p>
<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_002395.3</a> , <a href="#">NP_002386.1</a>
<b>RefSeq Size:</b>	3360 bp
<b>RefSeq ORF:</b>	1719 bp
<b>Locus ID:</b>	4199
<b>UniProt ID:</b>	<a href="#">P48163</a>
<b>Cytogenetics:</b>	6q14.2
<b>Domains:</b>	malic
<b>Protein Pathways:</b>	Metabolic pathways, PPAR signaling pathway, Pyruvate metabolism
<b>Gene Summary:</b>	<p>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]</p>