

## Product datasheet for **SC301958**

### ME3 (NM\_001014811) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	ME3 (NM_001014811) Human Untagged Clone
Tag:	Tag Free
Symbol:	ME3
Synonyms:	NADP-ME
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001014811, the custom clone sequence may differ by one or more nucleotides

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ATGGGTGCCGCGCTGGGGACAGGCACGCGGCTGGCTCCCTGGCCGGGCCGGGCTGCGGC
GCCCTCCCGCGCTGGACACCCACCGCGCCCGCCAAGGCTGCCACTCCAAGCCTGGCCCG
GCGCGCCTGTGCCCTGAAGAAGCGCGGATACGATGTACCAGGAACCTCATCTCAAC
AAGGGGATGGCCTTTACCTTTGAAGAAAGGCTGCAGCTTGAATCCACGGCCTAATCCCG
CCCTGCTTTCTGAGCCAGGACGCTCCAGCTCCTCCGAATCATGAGATATTACGAGCGGCAG
CAGAGTGACCTGGACAAGTACATCATTCTCATGACACTCCAAGACCGGAACGAGAAGCTC
TTCTACCGAGTGCTGACTTCGGACGTGGAGAAGTTCATGCCAATCGTGTACACGCCTACC
GTGGGGCTGGCCTGTCAGCACTATGGCCTGACTTTCGCAGGCCCGTGGACTGTTTCATC
ACCATTATGACAAAGGTCATCTTGCAACAATGCTGAATTCTTGCCAGAAGACAATATT
AAGGCCGTGGTGGTACTGATGGGGAGCGCATCCTGGCCTGGGAGACCTGGGCTGCTAC
GGCATGGGCATCCCTGTGGGCAAGCTGGCCCTGTACACGGCATGCGGAGGGGTGAACCCG
CAGCAGTGCCTCCCTGTGCTGCTGGACGTCGGCACCAACAATGAGGAGCTGCTCAGAGAC
CCTCTGTACATCGGCCTGAAACACCAGCGCGTGCACGGGAAGGCATACGATGACTTGCTG
GATGAGTTCATGACAGGCTGTGACAGACAAGTTTGAATAAATTGCCTCATCCAATTTGAA
GACTTCGCCAATGCCAATGCCTTCGCCTGCTCAACAAATACCGTAACAAGTACTGCATG
TTCAATGATGACATCCAAGGCACAGCCTCCGTTGCTGTGGCAGGGATCTTGGTGTCTG
CGAATCACCAAGAACAAGCTTTCCAATCACGTGTTTGTTCCTCAAGGTGCAGGCGAGGCA
GCTATGGGCATTGCCACCTCCTTGTATGGCCCTAGAGAAGAAGGTGTACCGAAGGCA
GAGGCCACAAGAAAGATCTGGATGGTGGACTCTAAAGGGCTCATTGTCAAGGGGAGGAGC
CACCTGAACCATGAAAAGGAGATGTTTGCCCAAGACCATCCTGAAGTCAACTCCCTGGAG
GAGGTGGTGGGCTGGTGAAGCCACAGCCATCATAGGTGTTGCTGCCATCGCAGGAGCC
TTCACGGAGCAGATTCTGAGGGACATGGCCTCCTTCCACGAGCGCCTATCATCTTTGCC
CTGAGCAACCCACCAGCAAGGCCGAGTGCACGGCTGAGAAGTGCTACCGGGTACCCGAG
GGCCGAGGGATTTTTGCCAGTGGAAAGTCTTTTTAAGAGTGTGACTCTGGAAGATGGCAAG
ACCTTCATTCTGGGCAGGGAAACAATGCTTACGTGTTCCCGGGGTGGCACTGGGAGTC
ATCGCCGGCGGGATCCGGCACATCCAGATGAGATCTTCTCCTGACAGCAGAGCAAAAT
GCCCAGGAAGTCTCTGAGCAGCATCTGTCCAGGGGAGACTCTACCCACCACTCAGCACC
ATCCGAGACGTGCTTTGAGAATTGCCATCAAAGTTCTCGACTACGCGTACAAACACAAC
CTGGCTTCTACTACCCAGAGCCTAAGGACAAGGAGGCTTTTGTAAAGATCCCTGGTCTAC
ACTCCAGACTATGACTCCTTTACTACTGGACAGCTACACTTGGCCCAAGGAAGCCATGAAT
GTTTCAGACGGTCTGA
    
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- Restriction Sites:** Please inquire
- ACCN:** NM\_001014811
- OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
- OTI Annotation:** 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.
- 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).

<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_001014811.1, NP_001014811.1</u>
<b>RefSeq Size:</b>	2242 bp
<b>RefSeq ORF:</b>	1815 bp
<b>Locus ID:</b>	10873
<b>UniProt ID:</b>	<u>Q16798</u>
<b>Cytogenetics:</b>	11q14.2
<b>Protein Pathways:</b>	Metabolic pathways, Pyruvate metabolism
<b>Gene Summary:</b>	<p>Malic enzyme catalyzes the oxidative decarboxylation of malate to pyruvate using either NAD<sup>+</sup> or NADP<sup>+</sup> as a cofactor. Mammalian tissues contain 3 distinct isoforms of malic enzyme: a cytosolic NADP(+)-dependent isoform, a mitochondrial NADP(+)-dependent isoform, and a mitochondrial NAD(+)-dependent isoform. This gene encodes a mitochondrial NADP(+)-dependent isoform. Multiple alternatively spliced transcript variants have been found for this gene, but the biological validity of some variants has not been determined. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (2) has an alternate 5' UTR and encodes the same protein, as compared to variant 1. Variants 1-4 all encode the same protein.</p>