

## Product datasheet for **SC125797**

### MCEE (NM\_032601) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** MCEE (NM\_032601) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** MCEE  
**Synonyms:** GLOD2; MCE  
**Mammalian Cell Selection:** None  
**Vector:** pCMV6-XL5  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_032601 edited  
GCTTTCCAAAATGGCGCGGGTGCTGAAGGCTGCAGCCGCGAATGCCGTAGGGCTTTTTTC  
CAGACTTCAAGCTCCCATTCCAACAGTAAGAGCTTCTTCCACATCACAGCCCTTGGATCA  
AGTGACAGGTTCTGTGTGGAACCTGGGTGCGACTCAACCATGTAGCCATAGCAGTGCCAGA  
TTTGAAAAGGCTGCAGCATTTTATAAGAATATTCTGGGGGCCAGGTAAGTGAAGCGGT  
CCCTCTTCTGAACATGGAGTATCTGTTGTTTTGTCAACCTGGGAAATACCAAGATGGA  
ACTGCTTCATCCATTGGGACTTGACAGTCCAATTGCAGTTTTCTGCAGAAAAACAAGGC  
TGGAGGAATGCATCACATCTGCATCGAGGTGGATAATATTAATGCAGCTGTGATGGATTT  
GAAAAAAGAAGATCCGCAGTCTAAGTGAAGAGGTCAAATAGGAGCACATGGAAAACC  
AGTGATTTTTCTCCATCCTAAAGACTGTGGTGGAGTCCTTGTGGAAGTGGAGCAAGCTTG  
ATTTATATTTGCAAGCACTAAATTAATTGACCTGAAAAAGCCTATCAAATACTATCAAA  
ATGTAATGACATTGAGTCCTTCACTGCTTCCATCATGTAAAAGTTCACAGTTAAAGAC  
TGAATTACAGAAAGATTAATAATATACATATATAAATACATAAATATGTATATTTTA  
GATTAACAAACATATTTGTTAATTTGAATTTGAAGAAAATCTTGATTACTAATTACTTAG  
GGAACATTATTAATATATAGAAATAAATTATTCCTCTTCAAAAAAAAAAAAAAAAAAAAA  
AAAAAAAAAA



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_032601 unedited TCACGAATTTGTAATACGCACTCACTATAGGCGGCGCGGAATTCGCCATTACGGCCGGG GGCTTTCCAAAATGGCGCGGGTCTGAAGGCTGCAGCCGGAATGCCGTAGGGCTTTTTT CCAGACTTCAAGTCCCATTCCAACAGTAAGAGCTTCTCCACATCACAGCCCTTGGATC AAGTGACAGGTTCTGTGTGGAACCTGGGTCGACTCAACCATGTAGCCATAGCAGTGCCAG ATTTGGAAAAGGCTGCAGCATTTTATAAGAATATTCTGGGGCCAGGTAAGTGAAGCGG TCCCTCTTCTGAACATGGAGTATCTGTTGTTTTGTCAACCTGGGAAATACCAAGATGG AACTGCTTCATCCATTGGGACTTGACAGTCCAATTGCAGTTTTCTGCAGAAAAACAAGG CTGGAGGAATGCATCACATCTGCATCGAGGTGGATAATTAATGCAGCTGTGATGGATT TGAAAAAAGAAGATCCGCAGTCTAAGTGAAGAGGTCAAAATAGGAGCACATGGAAAAC CAGTGATTTTTCTCCATCTAAAGACTGTGGTGGAGTCTTGTGGAAGTGGAGCAAGCTT GTTTATATTTGCAAGCACTAAATTAATTGACCTGAAAAAGGCTATCAAATACTATCAAAA TGTCTATGACATTGAGTCCTTCACTGGGTCATCATGGTAAAGTGCACAGTTAAGACTG AAGTACCGGAAAGATTAATAATTTTACCTAATTTAAATCCCTAAATTTGGGTTTTATTT AAAATAACAAACCTATTTGGTAAATTTGGAGTTGAAAAAATCTGGTGACCAATTGAC TTAGGGGACACTTGTTAAATCCTGTTGAGAAAAATTAGTCCCTCTCCGAGAAAAAGGG GGGGGGANNAGACATGTGTGGGCGCTTGGCCCTCGATTCTTATTGGGGCCGCGGGATA AAGGTGTGCGAGAAAAACCCGG
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_032601
<b>OTI Disclaimer:</b>	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).
<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_032601.2</a> , <a href="#">NP_115990.2</a>
<b>RefSeq Size:</b>	850 bp
<b>RefSeq ORF:</b>	531 bp
<b>Locus ID:</b>	84693
<b>UniProt ID:</b>	<a href="#">Q96PE7</a>
<b>Cytogenetics:</b>	2p13.3
<b>Protein Pathways:</b>	Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation

**Gene Summary:**

The product of this gene catalyzes the interconversion of D- and L-methylmalonyl-CoA during the degradation of branched chain amino acids, odd chain-length fatty acids, and other metabolites. Mutations in this gene result in methylmalonyl-CoA epimerase deficiency, which is presented as mild to moderate methylmalonic aciduria. [provided by RefSeq, Jul 2008]