

## Product datasheet for **SC125472**

### MCCC2 (NM\_022132) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MCCC2 (NM_022132) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCCC2
Synonyms:	MCCB; MCCCbeta
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 sequence for NM\_022132 edited  
 TCGGCACGAGCTGCAAGGACCTGAGCTCAGCTTCCGCCCCAGCCAGGGAAGCGGCAGGGG  
 AAAGCACCGGCTCCAGGCCAGCGTGGGCCGCTCTCTCGCTCGGTGCCCGCCGCCATGTGG  
 GCCGTCTGAGGTTAGCCCTGCGGCCGTGTGCCCGCCTCTCCCGCCGGGCCGCGCGCC  
 TATCACGGGACTCGGTGGCCTCGCTGGCACCCAGCCGACTTGGGCTCTGCCCTCTAC  
 CAGGAGAACTACAAGCAGATGAAAGCACTAGTAAATCAGCTCCATGAACGAGTGGAGCAT  
 ATAAAACCTAGGAGTGGTGAGAAAGCCCGAGCACTTACATATCAAGAGGAAAACATTTG  
 CCCAGAGAAAAGAATTGACAATCTCATAGACCCAGGGTCTCCATTTCTGGAATTATCCAG  
 TTTGCAGGTTACCAAGTTATATGACAATGAGGAGGTGCCAGGAGGTGGCATTATTACAGGC  
 ATTGGAAGAGTATCAGGAGTAGAATGCATGATTATTGCCAATGATGCCACCGTCAAAGGA  
 GGTGCCTACTACCCAGTGACTGTGAAAAACAATTACGGGCCCAAGAAATTGCCATGCAA  
 AACAGGCTCCCCTGCATCTACTTAGTTGATTCGGGAGGAGCATACTTACCTCGACAAGCA  
 GATGTGTTTCCAGATCGAGACCACTTTGGCCGTACATTCTATAATCAGGCAATTATGTCT  
 TCTAAAAATATTGCACAGATCGCAGTGGTCATGGGCTCCTGCACCGCAGGAGGAGCCTAT  
 GTGCCCTGCCATGGCTGATGAAAACATCATTGTACGCAAGCAGGGTACCATTTTCTTGCA  
 GGACCCCTTGGTTAAAGCGGCAACTGGGAAGAAGTATCTGCTGAGGATCTTGAGGAT  
 GCTGATCTTCATTGCAGAAAGTCTGGAGTAAGTACCCTGGGCTTTGGATGATCATCAT  
 GCCCTTCACTTAACTAGGAAGGTTGTGAGGAATCTAAATTATCAGAAGAAATTGGATGTC  
 ACCATTGAACCTTCTGAAGAGCCTTTATTTCTGCTGATGAATTGATGGAATAGTTGGT  
 GCTAACCTTAAGAGGAGCTTTGATGTCCGAGAGGTCATTGCTAGAATCGTGGATGGAAGC  
 AGATTCAGTGAAGTCAAAGCCTTTTATGGAGACACATTAGTTACAGGATTTGCTCGAATA  
 TTTGGGTACCCAGTAGGTATCGTTGAAACAACGAGTTCTCTTTTCTGAATCTGCAAAA  
 AAGGGTACTCACTTTGTCCAGTTATGCTGCCAAAGAAATTTCTCTGCTGTTCCCTTCAA  
 AACATTACTGGATTTATGGTTGGTAGAGAGTATGAAGCTGAAGGAATTGCCAAGGATGGT  
 GCCAAGATGGTGGCCGCTGTGGCCTGTGCCAAGTGCCTAAGATAACCCTCATCATTGGG  
 GGCTCCTATGGAGCCGAAACTATGGGATGTGTGGCAGAGCGTATAGCCCAAGATTTCTC  
 TACATTTGGCCAAATGCTCGTATCTCAGTATGGGAGGAGAGCAGGCAGCCAATGTGTTG  
 GCCACGATAACAAAGGACCAAGAGCCCGGAAGGAAAGCAGTTCTCCAGTGCTGATGAA  
 GCGGCTTTAAAAGAGCCCATCATTAAAGAAGTTTGAAGAGGAAGGAAACCTTACTATTCC  
 AGCGCAAGGGTATGGGATGATGGGATCATTGATCCAGCAGACACCAGACTGGTCTTGGGT  
 CTCAGTTTATAGTCAGCCCTCAACGCACCAATAGAGAAGACTGACTTCGGTATCTTCAGG  
 ATGTAACCTGGAATAAAAGGATGTTTTCTG

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_022132 unedited  
 NGGGTTTCAAAGTGTATACGACTCACTATAGGCGGCCGGAATTCGCACGAGCTGCAAGG  
 ACCTGAGCTCAGCTTCCGCCCCAGCCAGGGAAGCGGCAGGGGAAAGCACCGGCTCCAGGC  
 CAGCGTGGGCCGCTCTCTCGCTCGGTGCCCGCCGCCATGTGGCCGTCCTGAGGTTAGCC  
 CTGCGGCCGTGTGCCCGCCTCTCCCGCCGGCCGCGCCCTATCACGGGACTCGGTG  
 GCCTCGCTGGGCACCCAGCCGACTTGGGCTCTGCCCTTACCAGGAGAACTACAAGCAG  
 ATGAAAGCACTAGTAAATCAGCTCCATGAACGAGTGGAGCATATAAAACTAGGAGGTGGT  
 GAGAAAGCCCAGCACTTACATATCAAGAGGAAAACATTTGCCAGAGAAAGAATTGAC  
 AATCTCATAGACCCAGGGTCTCCATTTCTGGAATTATCCAGTTTGCAGGTTACCAGTTA  
 TATGACAATGAGGAGGTGCCAGGAGGTGGCATTATTACAGGCATTGGAAGAGTATCAGGA  
 GTAGAATGCATGATTATTGCCAATGATGCCACCGTCAAAGGAGGTGCCTACTACCCAGTG  
 ACTGTGAAAAACAATTACGGGCCAAGAAATTGCCATGCAAAACAGGCTCCCCTGCATC  
 TACTTAGTTGATTCGGGAGGAGCATACTTACCTCGACAGCAGATGTGTTTCCAGATCGAG  
 ACCACTTTGGCCGTACATTCTATAATCAGGCAATTATGTCTTCTAAAATATTGCACAGAT  
 CGCAGTGGTCATGGGCTCCTGCACCGCANNAGAGAGCCTATGTGCCTGCCATGGCTGATGA  
 AAACATCATTGTACGCAAGCAGGGTACCATTTTCTTGGCAGGACCCCTTGGNNTAAAG  
 CGGCACTGGC

**Restriction Sites:** NotI-NotI

<b>ACCN:</b>	NM_022132
<b>Insert Size:</b>	4000 bp
<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_022132.3</a> , <a href="#">NP_071415.1</a>
<b>RefSeq Size:</b>	2329 bp
<b>RefSeq ORF:</b>	1692 bp
<b>Locus ID:</b>	64087
<b>UniProt ID:</b>	<a href="#">Q9HCC0</a>
<b>Cytogenetics:</b>	5q13.2
<b>Domains:</b>	Carboxyl_trans
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Valine, leucine and isoleucine degradation
<b>Gene Summary:</b>	<p>This gene encodes the small subunit of 3-methylcrotonyl-CoA carboxylase. This enzyme functions as a heterodimer and catalyzes the carboxylation of 3-methylcrotonyl-CoA to form 3-methylglutaconyl-CoA. Mutations in this gene are associated with 3-Methylcrotonylglycinuria, an autosomal recessive disorder of leucine catabolism. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, May 2018]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1). 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 and orthologous data.</p>