

## Product datasheet for **SC336964**

### MCCC1 (NM\_001293273) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	MCCC1 (NM_001293273) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCCC1
Synonyms:	MCC-B; MCCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

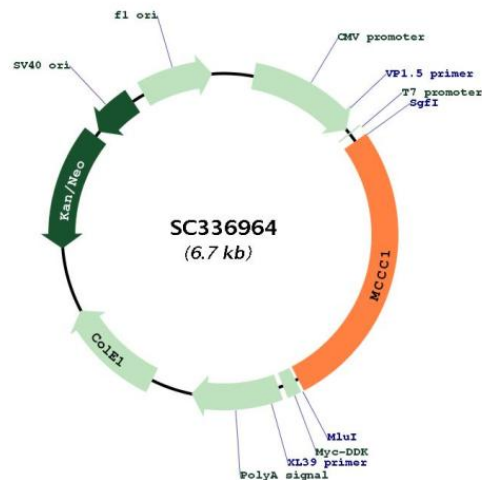


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Fully Sequenced ORF: >SC336964 representing NM\_001293273.  
Blue=Insert sequence Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGGTGTGGAGGCAAAGAACCATGAAGTACACAACAGCCACAGGCAGATGAAGCATATTCATCGGCC
CCGCTCCCTCCCAGCAGAGCTACCTATCTATGGAGAAAATCATTCAAGTGGCCAAGACCTCTGCTGCAC
AGCACATCCAAATCCATAATGGCTGCTGCTGGAGTACCTGTTGTGGAGGTTATCATGGTGGAGACCAA
TCAGACCAGTGCCTGAAGGAACACGCCAGGAGAATTGGCTATCCTGTCATGATTAAGGCCGTCCGGGGT
GGAGGAGGAAAAGGAATGAGGATTGTTAGATCAGAAACAAGAATTTCAAGAACAGTTAGAGTCAGCACGG
AGAGAAGCTAAGAAGTCTTTCAATGATGATGCTATGCTGATCGAGAAGTTGTAGACACACCGAGGCAT
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CTGGGAGAAGCTGCAGTCAGAGCTGCTAAAGCTGTAATATGTTGGAGCAGGGACTGTGGAGTTTATT
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GAGATGATCACAGGAACGACTTGGTGGAGTGGCAGCTTGAATTCAGCAGGAGAGAAGATTCCCTTTG
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AACTTCATGCCTGTGGCAGGCCATTAGTGCACCTCTCTACTCCTCGAGCAGACCCTCCACCAGGATT
GAAACTGGAGTACGGCAAGGAGACGAAGTTCCGTGCATTATGACCCCATGATTGCGAAGCTGGTCGTG
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ACTGATTTTCATCCCTCAACACCACAAACAGTTGTTGCTCAGTCGGAAGGCTGCAGCCAAAGAGCTTTA
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GATCAATTCTCTCATTTCGTCTAGCAGTGGAAAGAAAGACTGAATATCTCGTATACCAGAAACATGACT
CTTAAAGATGGTAAAAACAATGTAGCCATAGCTGTAACGTATAACCATGATGGGTCTTATAGCATGCAG
ATTGAAGATAAAACTTTCCAAGTCTTGGTAATCTTTACAGCGAGGGAGACTGCACCTTACCTGAAATGT
TCTGTTAATGGAGTTGCTAGTAAAGCGAAGCTGATTATCCTGGAAAACACTATTTACCTATTTTCCAAG
GAAGGAAGTATTGAGATTGACATTCCAGTCCCAAACTATCTTCTGTGAGCTACAAGAACTCAG
GGCGGCCCTTAGCTCCTATGACTGGAACCATTGAAAAGGTGTTGTCAAAGCTGGAGACAAAGTAAA
GCGGGAGATTCCCTCATGGTTATGATCGCCATGAAGATGGAGCATACCATAAAGTCTCAAAGGATGGC
ACAGTAAAGAAAGTGTCTACAGAGAAGGTGCTCAGGCCAACAGACACTCCTTTAGTCGAGTTTGAG
GAGGAAGAATCAGACAAAAGGGAATCGGAATAA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI

**Plasmid Map:**


**ACCN:** NM\_001293273

**Insert Size:** 1827 bp

**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).

**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).

**Reconstitution Method:**

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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.

**RefSeq:** [NM\\_001293273.1](#)

**RefSeq Size:** 2302 bp

**RefSeq ORF:** 1827 bp

**Locus ID:** 56922

**UniProt ID:** [Q96RQ3](#)

**Cytogenetics:** 3q27.1

**Protein Families:** Druggable Genome

**Protein Pathways:** Metabolic pathways, Valine, leucine and isoleucine degradation

**MW:** 68 kDa

**Gene Summary:** This gene encodes the large 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. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at an alternate start codon, compared to variant 1. The encoded protein (isoform 2) has a shorter and distinct N-terminus, compared to isoform 1.