

Product datasheet for **SC113201**

MCCC1 (NM_020166) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCCC1 (NM_020166) Human Untagged Clone
Tag:	Tag Free
Symbol:	MCCC1
Synonyms:	MCC-B; MCCA
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC113201 sequence for NM_020166 edited (data generated by NextGen Sequencing)

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ATGGCGCGCGCCTCTGCGGTGTCGGTGCTGCTGGTGGCGCGGAGAGGAACCGGTGGCAT
CGTCTCCCGAGCCTGCTCCTGCCGCCGAGGACATGGGTGTGGAGGCAAAGAACCATGAAG
TACACAACAGCCACAGGAAGAAACATTACCAAGGTCTCATTGCAAACAGAGGAGAAATT
GCCTGCAGGGTGATGCGCACAGCCAAAAAACTGGGTGTACAGACTGTGGCGGTTTATAGT
GAGGTGACAGAAATCCATGCATGTAGATATGGCAGATGAAGCATATTCCATCGGCCCC
GCTCCCTCCAGCAGAGCTACCTATCTATGGAGAAAATCATTCAAGTGGCCAAGACCTCT
GCTGCACAGGCTATCCATCCAGGATGCGGTTTTCTTTCAGAAAACATGGAATTTGCTGAA
CTTTGTAAGCAAGAAGGAATTATTTTTATAGGCCCTCCTCCATCTGCAATTAGAGACATG
GGTATAAAGAGCACATCCAAATCCATAATGGCTGCTGCTGGAGTACCTGTTGTGGAGGT
TATCATGGTGAGGACCAATCAGACCAGTGCCTGAAGGAACACGCCAGGAGAATTGGCTAT
CCTGTCATGATTAAGCCGTCCGGGTGGAGGAGAAAAGGAATGAGGATTGTTAGATCA
GAACAAGAATTTCAAGAACAGTTAGAGTCAGCACGGAGAGAAGCTAAGAAGTCTTTCAAT
GATGATGCTATGCTGATCGAGAAGTTTGTAGACACACCGAGGCATGTAGAAGTCCAGGTG
TTTGGTGATCACCATGGCAATGCTGTGTAAGTTTGAAGAGACTGTAGTGTGCAGAGG
CGACATCAGAAGATCATTGAGGAGGCCCCAGCGCTGGTATTAATCTGAAGTAAGAAAA
AAGCTGGGAGAAGCTGCAGTCAGAGCTGCTAAAGCTGTAATTTATGTTGGAGCAGGGACT
GTGGAGTTTATTATGGACTCAAAACATAATTTCTGTTTCATGGAGATGAATACAAGGCTG
CAAGTGGAAACATCCTGTTACTGAGATGATCACAGGAAGTACTTTGGTGGAGTGGCAGCTT
AGAATTGCAGCAGGAGAGAAGATTCTTTGAGCCAGGAAGAAATAACTCTGCAGGGCCAT
GCCTTCGAAGCTAGAATATATGCAGAAGATCCTAGCAATAACTTCATGCCTGTGGCAGGC
CCATTAGTGCACCTCTACTCCTCGAGCAGACCCTCCACCAGGATTGAAACTGGAGTA
CGGCAAGGAGACGAAGTTTCCGTGCATTATGACCCCATGATTGCGAAGCTGGTCGTGGG
GCAGCAGATCGCCAGGCGCATTGACAAAACAGGTTACAGCCTTCGTGAGTACAATATT
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GCTGGGAACGTGCACACTGATTTTCATCCCTCAACACCACAAACAGTTGTTGCTCAGTCGG
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GCCATGACCGACACTTTCACTCTCAGGCACATGATCAATTCTCTCCATTTTCGTCTAGC
AGTGAAGAAGACTGAATATCTCGTATACCAGAAACATGACTCTTAAAGATGGTAAAAAC
AATGTAGCCATAGCTGTAAAGTATAACCATGATGGGTCTTATAGCATGCAGATTGAAGAT
AAAACCTTCCAAAGTCCTTGGTAATCTTTACAGCGAGGGAGACTGCACTTACCTGAAATGT
TCTGTTAATGGAGTTGCTAGTAAAGCGAAGCTGATTATCCTGGAAAACACTATTTACCTA
TTTTCCAAGGAAGGAAGTATTGAGATTGACATTCCAGTCCCAAACTACTATCTTCTGTG
AGCTCACAAAGAACTCAGGGCGGCCCTTAGCTCCTATGACTGGAACCATTGAAAAGGTG
TTTGTCAAAGCTGGAGACAAAGTAAAAGCGGGAGATTCCCTCATGGTTATGATCGCCATG
AAGATGGAGCATACCATAAAGTCTCAAAGGATGGCACAGTAAAGAAAGTGTCTACAGA
GAAGGTGCTCAGGCCAACAGACACACTCCTTTAGTCGAGTTTGAGGAGGAAGAATCAGAC
AAAAGGAATCGGAATAA
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Clone variation with respect to NM_020166.3
396 c=>t;1391 a=>c

5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_020166 unedited GGTTGTTCCAGNATATTTGTNAATACGCACTTCACTATAGNNGCGCGCCGCAATTCGG CACGAGGGCCCGCGGGGTACGAGGCTTCGTAGTGGAGGAACGGGTTTGGCGTGTGGGA CGCAGCTGCCTCTGTACTGGGGAGTACGGAGTGGCCGGGCTCCAGGGACATGGCGGCGG CCTCTGCGGTGTCGGTGTCTGGTGGCGGCGGAGAGGAACCGGTGGCATCGTCTCCCGA GCCTGCTCCTGCCGCCGAGGACATGGGTGTGGAGGCAAAGAACCATGAAGTACACAACAG CCACAGGAAGAAACATTACCAAGTCTCATTGCAAACAGAGGAGAAATTGCCTGCAGGG TGATGCGCACAGCAAAAAAAGTGGGTGTACAGACTGTGGCGGTTTATAGTGAGGCTGACA GAAATTCATGCATGTAGATATGGCAGATGAAGCATATTCATCGGCCCGCTCCCTCCC AGCAGAGCTACCTATCTATGGAGAAAATCATTCAAGTGGCCAAGACCTCTGCTGCACAGG CTATCCATCCAGGATGCGGTTTTCTTTCAGAAAACATGGAATTTGCTGAACTTTGTAAGC AAGAAGGAATTATTTTTATAGGCCCTCCTCCATCTGCAATTAGAGACATGGGTATAAAGA GCACATCCAAATCCATAATGGCTGCTGCTGGAGTACCTGTTGTGGCACGGTTATCATGGT GAGGACCAATCAGACCAGTGCCTGGAGGAACACGCCAGNAGAATTGGCTATCCTGTCATG ATTAAGCCGCGCGGGCTGGGAGGAAGGAAAATGATTGGACGCATTGGTCCACCCCGAA ACAAGAATTTCTCAGAACCCTTACAGCCACGCACGGAAGGAGCTTCAAAAACCTCTT TCAACGGATGACGCTATGCCTGATTCGAAAAC</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_020166 unedited GACCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTT TTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCAAAAAAAATCACTTTTTTATTTT AAAATTTTGGAAAAATTAGGGCCCCAAGGCTTGATTTTCCAATTTAAAGGGGTTCA CCTAACCTTCCAATTTTTAAAAAACTGTTTTTATAAAACCCCAAAAAAGCGGGGG GCCTTCTTTTTTTGGGGGAAAAAAAACCTTTTTTAAACGGGCCTTTTCTTTGGGGGA GTTAATCCCAATCCCCTTTGGGCGGATTTTCTCCAAAACCAATTAAGGAGGGTGT TTTTTGGCCTAACCCCTTTTTTGA AAAACATTTTTTTACTGGGCCTTCTTTGAAAAC TTTAGGGGAGCCCCATTTTCGGGGGATCTTAACCTTGGGGGAATCTCCCGTTTTTATT TTGTCCCAGTTTTAAAAACACCTTTTAAAGGTTCCAACCATAGAACCTAAGGGGCC CCCTGATTTTTTGGGACCCACAAAAATAATTTTTGGGGGACGGGAATGCCAATCCCA ATACTTCTTCTTGA AAAAAGGAAAATAGGGTTTCCAGAAAAATCACTTTCTTTTA CTACCAACTCCTTAAAAAACATTTAGGGTAAGGGCAGCCCTTCGCTGAAAAAATAC CAAGGCCTTGGAAAGTTTATCTCAATTTGCTGTATAAAACCCCAAGGTTATCCCTA CACCTATGGCTACTTGTTTCCACATTTTTAAAAACATGTTTCGGAGTAAACAAGATATT AATTTTTTTTCACTGTGTAACAAAATGGGAAAATTTCTTTTGTCCGAAAAAGGAAAGT TCCGCTTGTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_020166
Insert Size:	2620 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:	<ol style="list-style-type: none">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_020166.2 , NP_064551.2
RefSeq Size:	2528 bp
RefSeq ORF:	2178 bp
Locus ID:	56922
UniProt ID:	Q96RQ3
Cytogenetics:	3q27.1
Domains:	biotin_lipoyl, CPSase_L_D2, CPSase_L_chain, Biotin_carb_C
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Valine, leucine and isoleucine degradation
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) encodes the longer isoform (1).</p>