

Product datasheet for **RC200909**

MCCC1 (NM_020166) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCCC1 (NM_020166) Human Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>RC200909 representing NM_020166
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGCGCCCTCTGCGGTGTCGGTGCTGCTGGTGGCGGCGGAGAGGAACCGGTGGCATCGTCTCCCGA
 GCCTGCTCCTGCCGCGAGGACATGGGTGTGGAGGCAAAGAACCATGAAGTACACAACAGCCACAGGAAG
 AACATTACCAAGTCTCTATTGCAAACAGAGGAGAAATTGCCTGCAGGGTGATGCGCACAGCCAAAAA
 CTGGGTGTACAGACTGTGGCGTTTATAGTGAGGCTGACAGAAATTCATGCATGTAGATATGGCAGATG
 AAGCATATTCATCGCCCCGCTCCCTCCAGCAGAGCTACCTATCTATGGAGAAATCATTCAAGTGGC
 CAAGACCTCTGCTGCACAGGCTATCCATCCAGGATGCGGTTTTCTCTCAGAAAACATGGAATTTGCTGAA
 CTTTGTAAGCAAGAAGGAATTTTTTATAGGCCCTCTCCATCTGCAATTAGAGACATGGGTATAAAGA
 GCACATCCAAATCCATAATGGCTGCTGCTGGAGTACCTGTTGTTGGAGGGTATCATGGTGGAGACCAATC
 AGACCAGTGCCTGAAGGAACACGCCAGGAGAATTGGCTATCCTGTCATGATTAAGCCGTCGGGGTGG
 GGAGGAAAAGGAATGAGGATTGTAGATCAGAACAAGAATTTCAAGAACGTTAGAGTCAGCACGGAGAG
 AAGCTAAGAAGTCTTCAATGATGATGCTATGCTGATCGAGAAGTTTGTAGACACACCGAGGCATGTAGA
 AGTCCAGGTGTTTGGTATCACCATGGCAATGCTGTGACTTGTGGAAAGAGACTGTAGTGTGCAGAGG
 CGACATCAGAAGATCATTGAGGAGGCCCGCCGCTGGTATTAATCTGAAGTAAGAAAAAGCTGGGAG
 AAGCTGCAGTCAGAGCTGCTAAAGCTGTAATTTATGTTGGAGCAGGGACTGTGGAGTTTATTATGGACTC
 AAAACATAATTTCTGTTTCATGGAGATGAATAAAGGCTGCAAGTGAACATCCTGTTACTGAGATGATC
 ACAGGAAGTACTGCTGGTGGAGTGGCAGCTTAGAATTGCAGCAGGAGAGAAGATTCCTTTGAGCCAGGA
 AAATAACTCTGCAGGGCCATGCCTCGAAGCTAGAATATATGCAGAAGATCCTAGCAATAACTTTCATGCC
 TGTGGCAGGCCATTAGTGCACCTCTACTCCTCGAGCAGACCCTTCCACCAGGATTGAAACTGGAGTA
 CGGCAAGGAGACGAAGTTTCCGTGCATTATGACCCCATGATTGCGAAGCTGGTCGTGGGCAGCAGATC
 GCCAGGCGCATTGACAAAAGTACAGGTTACAGCCTTCGTCAGTACAATATTGTTGGACTGCACACCAACAT
 TGACTTCTTACTCAACCTGTCTGGCCACCAGAGTTTGAAGCTGGGAACGTGCACACTGATTTTCATCCCT
 CAACACCACAAACAGTTGTTGCTCAGTCGGAAGGCTGCAGCCAAAGAGTCTTTATGCCAGGCAGCCCTGG
 GTCTCATCCTCAAGGAGAAAGCCATGACCGACACTTTCCTCTCAGGCACATGATCAATCTCTCCATT
 TTCGTCTAGCAGTGAAGAAGACTGAATATCTCGTATACCAGAAACATGACTCTTAAAGATGGTAAAAAC
 AATGTAGCCATAGCTGTAACGTATAACCATGATGGTCTTATAGCATGCAGATTGAAGATAAAACTTTCC
 AAGTCCTTGGTAATCTTTACAGCGAGGGAGACTGCACTTACCTGAAATGTTCTGTTAATGGAGTTGCTAG
 TAAAGCGAAGCTGATTATCCTGGAAAACACTATTTACCTATTTTCCAAGGAAGGAAGTATTGAGATTGAC
 ATTCCAGTCCCCAAATACTTATCTTCTGTGAGCTCACAAGAACTCAGGGCGGCCCTTAGCTCCTATGA
 CTGGAACCATGAAAAGGTGTTGTCAAAGCTGGAGACAAAGTGAAGCGGGGAGATTCCCTCATGTTAT
 GATCGCCATGAAGATGGAGCATACCATAAAGTCTCAAAGGATGGCACAGTAAAGAAAGTGTCTACAGA
 GAAGGTGCTCAGGCCAACAGACACACTCTTTAGTCGAGTTTGGGAGGAAGAATCAGACAAAAGGGAAT
 CGGAA

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC200909 representing NM_020166
Red=Cloning site Green=Tags(s)

MAAASAVSVLLVAAERNRWHRLPSLLLPPRTWVWRQRTMKYTTATGRNITKVLIANRGEIACRVMRTAKK
 LGVQTVAVYSEADRNSMHVDMADAEAYSIGPAPSQQSYLSMEKIIQVAKTSAAQAIHPGCGFLSENMEFAE
 LCKQEGEIIFIGPPPSAIRDMGIKSTSKSIMAAAGVPVVEGYHGEDQSDQCLKEHARRIGYPVMIKAVRGG
 GGKGMRIVRSEQEFQEQLSARREAKKSFNDAMLIEKFVDTPRHVEVQVFGDHHGNAVYLFERDCSVQR
 RHQKIIIEEAPAPGIKSEVRKKGAAVRAAKAVNYVAGTVEFIMDSKHNF CFMEMNTRLQVEHPVTEMI
 TGTDLVEWQLRIAAGEKIPLSQEEITLQGHAFARIYAEDPSNNFMPVAGPLVHLSTPRADPSTRIETGV
 RQGDEVSVHYDPMIAKL VVWAADRQAALTKLRYSLRQYNI VGLHTNIDFLLNL SGHPEFEAGNVHTDFIP
 QHHKQLLLSRKAAAKESLCQAALGLILKEKAMTDTFTLQAHQDFSPFSSSSGRRLNISYTRNMTLKDGKN
 NVAIAVTYNHDGSSMQIEDKTFQVLGNLYSEGDC TYLKCSVNGVASKAKLIILENTIYLF SKEGSIEID
 IPVPKYLVSSVSSQETQGGPLAPMTGTIEKVFVKAGDKVKAGDSLMMVIAMKMEHTIKSPKDGTVKKVFYR
 EGAQANRHTPLVEFEESDKRESE

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mg4824_a09.zip

Restriction Sites: Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_020166

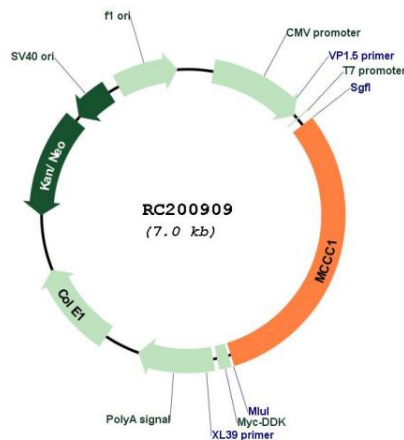
ORF Size: 2175 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	<u>NM_020166.5</u>
RefSeq Size:	2551 bp
RefSeq ORF:	2178 bp
Locus ID:	56922
UniProt ID:	<u>Q96RQ3</u>
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
MW:	75.6 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]

Product images:



Circular map for RC200909

