

Product datasheet for **RC239070**

MCCC1 (NM_001293273) Human Tagged ORF Clone

Product data:

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



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ORF Nucleotide Sequence:

>RC239070 representing NM_001293273
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGTGTGGAGGCAAAGAACCATGAAGTACACAACAGCCACAGGCAGATGAAGCATATCCATCGGCC
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 CACATCCAAATCCATAATGGCTGCTGCTGGAGTACCTGTTGTGGAGGTTATCATGGTGAGGACCAATCA
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Protein Sequence:

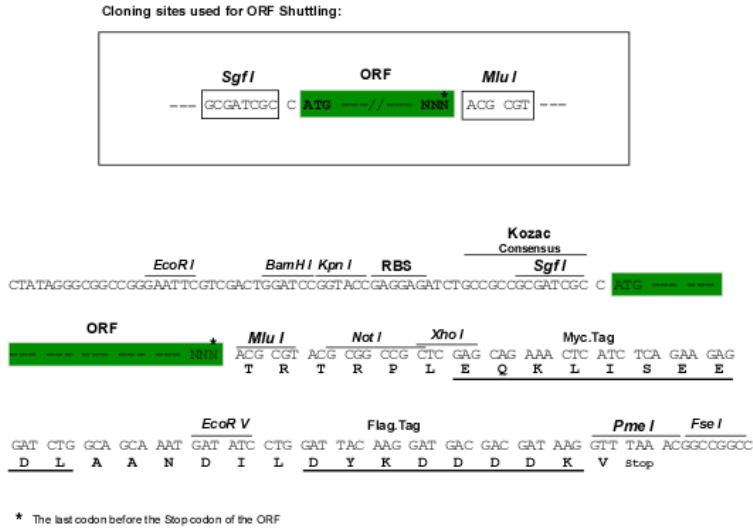
>RC239070 representing NM_001293273
 Red=Cloning site Green=Tags(s)

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 DQCLKEHARRIGYPVMIKAVRGGGKGMRIVRSEQEFQEQLSARREAKSFNDDAMLIEKFVDTPRHVE
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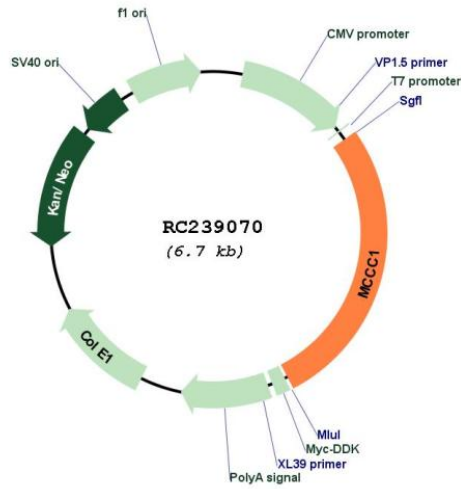
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001293273

ORF Size: 1824 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:	NM_001293273.1 , NP_001280202.1
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:	68.4 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]