

Product datasheet for **RG239070**

MCCC1 (NM_001293273) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	MCCC1 (NM_001293273) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	MCCC1
Synonyms:	MCC-B; MCCA
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG239070 representing NM_001293273.
 Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGGGTGTGGAGGCAAAGAACCATGAAGTACACAACAGCCACAGGCAGATGAAGCATATTCATCGGCC
CCGCTCCCTCCCAGCAGAGCTACCTATCTATGGAGAAAATCATTCAAGTGGCCAAGACCTCTGCTGCAC
AGCACATCCAAATCCATAATGGCTGCTGCTGGAGTACCTGTTGTGGAGGGTTATCATGGTGAAGACCAA
TCAGACCAGTGCCTGAAGGAACAGCCAGGAGAATTGGCTATCCTGTCATGATTAAGGCCGTCCGGGGT
GGAGGAGGAAAAGGAATGAGGATTGTTAGATCAGAACAAGAATTTCAAGAACAGTTAGAGTCAGCACGG
AGAGAAGCTAAGAAGTCTTTCAATGATGATGCTATGCTGATCGAGAAGTTTGTAGACACCCGAGGCAT
GTAGAAGTCCAGGTGTTTGGTATCACCATGGCAATGCTGTACTTGTGTTGAAAGAGACTGTAGTGTG
CAGAGGCGACATCAGAAGATCATTGAGGAGGCCCCAGCGCCTGGTATTAATCTGAAGTAAGAAAAAAG
CTGGGAGAAGCTGCAGTCAGAGCTGCTAAAGCTGTAATATGTTGGAGCAGGGACTGTGGAGTTTATT
ATGGACTCAAAACATAATTTCTGTTTCATGGAGATGAATACAAGGCTGCAAGTGGAAACATCCTGTTACT
GAGATGATCACAGGAACTGACTTGGTGGAGTGGCAGCTTAGAATTGCAGCAGGAGAGAAGATTCCCTTTG
AGCCAGGAAGAAAATAACTCTGCAGGGCCATGCCTTCGAAGCTAGAATATATGCAGAAGATCCTAGCAAT
AACTTCATGCCTGTGGCAGGCCATTAGTGCACCTCTCTACTCCTCGAGCAGACCCTCCACCAGGATT
GAAACTGGAGTACGGCAAGGAGACGAAGTTCCGTGCATTATGACCCCATGATTGCGAAGCTGGTCGTG
TGGGCAGCAGATCGCCAGGCGGCATTGACAAAACAGGTTACAGCCTTCGTCAAGTACAATATTGTTGGA
CTGCACACCAACATTGACTTCTTACTCAACCTGTCTGGCCACCCAGAGTTGAAGCTGGGAACTGCAC
ACTGATTTTCATCCCTCAACACCACAAACAGTTGTTGCTCAGTCGGAAGGCTGCAGCCAAAGAGTCTTTA
TGCCAGGCAGCCCTGGTCTCATCTCAAGGAGAAAAGCCATGACCGACACTTTCACTCTTCAGGCACAT
GATCAATTTCTCCATTTTCGTCTAGCAGTGGAAAGAACTGAATATCTGTATACAGAAAACATGACT
CTTAAAGATGGTAAAAACAATGTAGCCATAGCTGTAACGTATAACCATGATGGGTCTTATAGCATGCAG
ATTGAAGATAAACTTTCCAAGTCTTGGTAATCTTTACAGCGAGGGAGACTGCACCTTACCTGAAATGT
TCTGTTAATGGAGTTGCTAGTAAAGCGAAGCTGATTATCCTGGAAAACACTATTTACCTATTTTCCAAG
GAAGGAAGTATTGAGATTGACATCCAGTCCCAAACTACTTATCTTCTGTGAGCTCACAAGAACTCAG
GGCGGCCCTTAGCTCCTATGACTGGAACCATTGAAAAGGTGTTGTCAAAGCTGGAGACAAAGTAAA
GCGGGAGATTCCCTCATGGTTATGATCGCCATGAAGATGGAGCATACCATAAAGTCTCAAAGGATGGC
ACAGTAAAGAAAGTGTCTACAGAGAAGGTGCTCAGGCCAACAGACACTCCTTTAGTCGAGTTTGAG
GAGGAAGAATCAGACAAAAGGGAATCGGAA
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
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Protein Sequence:

>Peptide sequence encoded by RG239070
 Blue=ORF Red=Cloning site Green=Tag(s)

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MGVEAKNHEVHNSHRQMKHIPSAPLPPSRATYLWRKSFKWRPRLHSTSKSIMAAAGVPVVEGYHGEDQ
SDQCLKEHARRIGYPVMIKAVRGGGKGMRIVRSEQEFQEQLSARREAKKSFNDAMLIEKFVDTPRH
VEVQVFGDHHGNAVYLFERDCSVQRRHQKIIIEEAPAPGIKSEVRKKLGEAAVRAAKAVNYVYVAGTVEFI
MDSKHNFCMEMNTRLQVEHPVTEMITGDLVEWQLRIAAGEKIPLSQEETLQGHAFEARIYAEDPSN
NFMPVAGPLVHLSTPRADPSTRIETGVRQGDVSVHYDPMIAKL VVWAADRQAALTKLRYSLRQYNIYG
LHTNIDFLLNLSGHPEFEAGNVHTDFIPQHHKQLLLSRKAAAKESLQAALGLILKEKAMDTFTLQAH
DQFSPFSSSSGRRLNISYTRNMTLKDGNVVAIAVTYNHDGSYSMQIEDKTFQVLGNLYSEGDCYLLKC
SVNGVASKAKLIILENTIYLFKEGSIEIDIPVPKYLSSVSSQETQGGPLAPMTGTIEKVFVKAGDKVK
AGDSLMMVMIAMKMEHTIKSPKDGTVKVFYREGAQRHRTPLVEFEESDKRESE
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSTYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPE
SVIFTDKIIIRSNATVEHLHPMGDNDLDGFSFTRTFLSRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites:

Sgfl-MluI

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).
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]