

Product datasheet for **RR203166**

Mccc2 (NM_001012177) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mccc2 (NM_001012177) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mccc2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR203166 representing NM_001012177
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGGGCGCGCTGAGGTCAGTTCTCGGGCCCTGCAGTCGGCCCTCCGTACCCCGCAGCGCCCTATC
 ACGGGGACGCGGTGGCCGACTGGGCACCCAGCCTGACTCGGGCTCCTCCACCTACCAGGAGAACTATGA
 GCAGATGAAAGCTTTAGTGAATCAACTTCATGAACGAGCCAGTATGTAAGACTGGGAGGGAGTGAGAAA
 GCCCGGGCGGCACACATCAAGAGGAAAAGTGTACCCAGAGACCGAATCGACAACCTCATAGACCCAG
 GGTCTCCCTTTCTGGAATTCTCCAGTTCGCAGGTTACAAGTTATATGGCGAGGAGGAAGTCCCTGCAGG
 TGGCATCATCACAGGCATTGGGCGAGTGTCTGGAGTAGAATGCATGATTGTGGCTAACGATGCCACCCTC
 AAAGGAGGCACCTACTACCCAGTGACGGTGAAGAACGACGTTCCGGCACAAGAGATCGCACTGCAGAACA
 GGCTCCCATGCATCTATCTGGTTGACTCAGGAGGGCCAACTTACCTCGCAAGCAGACACCTTTCCAGA
 CCGGGACCACTTTGGCCGCATATTCTATAATCAAGCTATTATGTCTTCTAAAAATATCACACAGATAGCT
 GTGGTCATGGGCTCCTGTACGGCAGGAGGTGCATATGTGCCGGCCATGGCTGATGAAAACATCATTGTAC
 AAAGACAGGGTACTATCTTCTGGCTGGACCACCTTGGTGAAGGCAGCTACCGGCGAAGAGGTGTCCGC
 TGAGGATCTCGGAGGTGCTGACTTGCACTGCAGAAGGTCTGGGGTCACTGACCACTATGCTTTGGATGAC
 CACCACGCCCTTCACTTGACAAGGAAGTTGTGAGGAGTCTCAATTATCAGAAGAACTGGATGTTACCG
 TTGAACCTTCTGAAGAGCCCTTGTCCCGCAGATGAATTGTATGGGATAGTCGGTGCGAACCTTAAGAG
 GAGCTTTGATGTCCGAGAGGTCATTGCTAGAATCGTCGATGGAAGCAGATTCAATGAGTTCAAGGCCCTT
 TATGGAGACACGCTCGTCACAGGATTCGCTCGAATATTTGGTACCCAGTAGGCATCATTGGAACAATG
 GAGTTTTGTTTTCTGAATCTGCCAAAAAGGGCGCTCACTTCGTCCAGCTGTCTGCCAAAAGAAATATCCC
 CCTGCTGTTTTCTCAGAACATCACTGGATTTCATGGTTGGTAAAGACTATGAAGCCGAAGGGATTGCCAAG
 GATGGCGCCAAGATGGTAGCCGAGTATCCTGTGCCAAAGTGCCTAAGATAACTGTCATAATCGGGGGAT
 CATATGGGGCTGGAACTACGGAATGTGTGGCAGAGCATATAGTCCAAGATTTCTCTACATGTGGCCAAA
 TGCTCGCATCTCAGTGTGGGAGGAGAGCAGGCAGCCACCGTGTAGCCACGGTGGCAGAGACCAGAGA
 GCCCGTGAGGGGAAGCAGTTCTCCAGTGCAGAGGAGGCAGCTTTGAAAGAGCCCATCATCAAGAGTTTCG
 AAGAGGAAGGGAACCTTACTATTCCAGTGCAAGGCTGTGGGATGATGGGATTATCGACCCCGTGGACAC
 CAGGCTGGTTCTGGGACTCAGCATCAGTGCAGCCCTCAATGCGCCATCCAGAGGACAGACTTTGGCATC
 TTCAGGATG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203166 representing NM_001012177
 Red=Cloning site Green=Tags(s)

MWGalRSVLRPCSRASVPRQRAYHGDAVARLGTQPDSSSTYQENYEQMKALVNQLHERAQYVRLGGSEK
 ARARHTSRGKLLPRDRIDNLIDPGSPFLEFSQFAGYKLYGEEVPAAGIITGIGRVSGVECMIVANDATV
 KGGTYYPVTVKKHVRAQEIALQNRLPCIYLVDSGGANLPRQADTFPDRDHFGRIFYNQAIMSSKNITQIA
 VVMGSCAGGAYVPAMADENIIVQRQGTIFLAGPPLVKAATGEEVSAEDLGGADLHCRRSVTDHYALDD
 HHALHLTRKVVRSLNYQKLDVTVEPSEEPLFPADELYGIVGANLKRSDVREVIARIVDGSRFNEFKAL
 YGDTLVTGFARIFGYPVGIIGNNGVLFSESACKGAHFVQLCCQRNIPLFLQNITGFMVKGDYEAEGIAK
 DGAKMVAAVSCAKVPKITVIIGGSYGAGNYGMCGRAYSPRFLYMWPNARISVMGGEQAATVLATVARDQR
 AREGKQFSSAEEAALKEPIIKRFEEEGNPYSSARLWDDGIIDPVDTRLVLGLSISAALNAPIQRTDFGI
 FRM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

ORF Size:	1689 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_001012177.1 , NP_001012177.1
RefSeq Size:	2220 bp
RefSeq ORF:	1692 bp
Locus ID:	361884
UniProt ID:	Q5XIT9
Cytogenetics:	2q12
MW:	61.5 kDa
Gene Summary:	Carboxyltransferase subunit of the 3-methylcrotonyl-CoA carboxylase, an enzyme that catalyzes the conversion of 3-methylcrotonyl-CoA to 3-methylglutaconyl-CoA, a critical step for leucine and isovaleric acid catabolism.[UniProtKB/Swiss-Prot Function]