

Product datasheet for **MR224804**

Mccc2 (NM_030026) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mccc2 (NM_030026) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Mccc2
Synonyms:	4930552N12Rik; MCCB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR224804 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTGGGGCGCGCTGAGGTCAGCTCTGCGACCGTGTGTCGGGCTGCTGTACCCCGCAGCGTGCCTATC
 ACGGGGACTCAGTGGCCGACTGGGCACCCAGCCTGACTCGGCCTCCTCCACCTACCAGGAGAACTATGA
 GCAGATGAAAGCTTTAGTGAGTCAACTTCATGAGCGAGCCAGTATGTGAGACTAGGAGGGAGTGAGAAG
 GCCCGGGCGCGCACACATCCAGAGGAAAAGTGTCCCCAGAGACAGAATCGACAATCTCATAGACCCAG
 GGTCTCCCTTTCTGGAATTCTCCAGTTTGACAGTTACCAGTTATATGGCGACGAGGAAGTCCCCCGCG
 TGGCATCATCACGGCATTGGGCGAGTGTGGGGGTAGAATGCATGATTGTGGCTAACGATGCCACCCTC
 AAAGGAGGCACCTACTACCCAGTACTGTGAAAAAGCACGTGCGGGCACAAGAGATTGCGCTGCAGAACC
 GACTCCCATGCATCTATCTGTTGACTCAGGAGGGCCAACTTACCTCGCAAGCAGACACCTTTCCAGA
 CCGGGACCACTTTGGCCGCATATTCTATAATCAGGCAATTATGTCTTCTAAAAACATCACACAGATAGCT
 GTGGTCATGGGCTCCTGTACGGCAGGAGGTGCGTATGTGCTGCAATGGCTGATGAAAACATCATTGTAC
 AGAAGCAGGGTACCATCTTCTGGCTGGACCACCTTGGTGAAGGCAGCTACAGGTGAAGAGGTGTCCGC
 TGAGGATCTCGGAGGTGCCGACCTGCATTGCAGAAAAGTCTGGGGTCACTGACCACTATGCTTTGGACGAC
 CACCACGCCCTCCACTTAAACAAGGAAGTTGTGAGGAGTCTCAATTATCAGAAGAAAATGGATGTTACCA
 TTGAGCCTTCTGAGGAGCCCTTGTCCCTGCAGATGAGCTCTATGGAATAGTTGGTGCAAACCTGAAGAG
 GAGCTTTGATGTCCGAGAGGTCATTGCTAGAATCGTGGATGGAAGCAGATTCAATGAGTTCAAGGCCTTA
 TATGGAGACACCCTAGTTACAGGATTTGCTCGAATATTTGGGTACCCCGTTGGCATCATTGGAACAATG
 GAGTTTTGTTTTCTGAATCTGCTAAGAAGGGTCTCACTTCGTCAGCTGTGCTGCCAGGAAAATATCCC
 TCTGCTGTTTCTCAGAATATCACCGGATTCATGGTTGGCAGAGACTATGAAGCTGAAGGATTGCCAAG
 GATGGTGCCAAAATGGTAGCTGCAGTAGCCTGTGCCAAAGTGCCTAAGATAACTGTCATAATTGGGGGAT
 CGTACGGGGCTGGAACTACGGAATGTGTGGCAGAGCATACAGTCCAAGGTTTCTCTACATGTGGCCAAA
 TGCCCGCATCTCTGTGATGGGAGGAGAGCAGGCAGCCACGGTGTAGCCACAGTGGCTAGAGACCAGAAA
 GCACGCGAGGGGAAGCAGTTCTCCAGTGCAGAGGAGGCAGCTTTGAAAGAACCATCATTAAAGAGTTTCG
 AAGAGGAAGGGAACCCTTACTACTCTAGTGAAGGCTGTGGGACGATGGGATTATTGACCCGGTGGACAC
 CAGGCTGGTCTGGGGCTCAGCCTCAGTGCAGCCCTCAATGCGCCATCCAGAGGACTGACTTTGGCATC
 TTCAGGATG

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224804 protein sequence
 Red=Cloning site Green=Tags(s)

MWALRSALRPPCRAAVPPQRAYHGDSVARLGTQPDSSASTYQENYEQMKALVSQLHERAQYVRLGGSEK
 ARARHTSRGKLLPRDRIDNLIDPGSPFLFESQFAGYQLYGDEEVPAGGIITGIGRVSGVECMIVANDATV
 KGGTYYPVTVKKHVRAQEIALQNRLPCIYLVDSGGANLPRQADTFPDRDHFGRIFYNQAIMSSKNITQIA
 VVMGSCCTAGGAYVPAMADENIIVQKQGTIFLAGPPLVKAATGEEVSAEDLGGADLHCRKSGVTDHYALDD
 HHALHLTRKVVRLSNYQKMDVTIEPSEEPLFPADEL YGIVGANLKRFDVREVIARIVDGSRFNEFKAL
 YGDTLVTGFARIFGYPVGIIGNGVLFSESAKKAHFVQLCCQRNIPLLFQNIITGMVGRDYEAEGIAK
 DGAKMVAAVACAKVPKITVIIGSYGAGNYGMCGRAYSFRFLYMWPNARISVMGGEQAATVLATVARDQK
 AREGKQFSSAEEAALKEPIIKRFEEEGNPYYSSARLWDDGIIDPVDTLVLGLSLSAALNAPIQRTDFGI
 FRM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_030026

ORF Size: 1692 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:

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_030026.2](#), [NP_084302.1](#)

RefSeq Size: 2146 bp

RefSeq ORF: 1692 bp

Locus ID: 78038

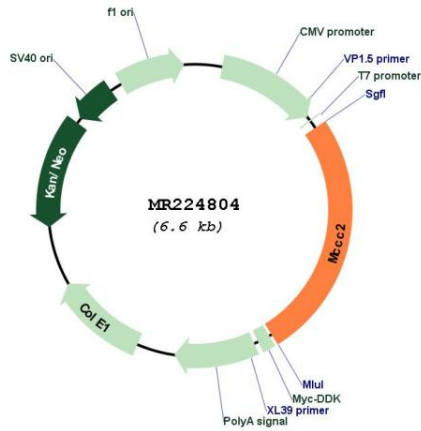
UniProt ID: [Q3ULD5](#)

Cytogenetics: 13 D1

MW: 61.4 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]

Product images:



Circular map for MR224804