

## Product datasheet for **MC202933**

### **Mccc1 (NM\_023644) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Mccc1 (NM_023644) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Mccc1
Synonyms:	1810045E08Rik; 2310058B18Rik; Mcca; MCCalpha; R75106
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC021382 sequence for NM\_023644  
 CCACGCGTCCGAGAAGCTTGCAGGGGAGGACGCTTTCAAGAATAAGCCAAGCAGCTTTTGAATCCAG  
 CAGAACAGCGCGGAGATGGCGGGCGGCGTGTGGCTGCGGTGGACAGGAACCAAGTTGCGACGGGTCC  
 CGATCCTGCTGCTGCAGCCGAGGGAATGGGCTTGAAGTTGAGAACCATGAAGTATGGAACAACCCAGG  
 AGGAAGCATTACCAAGGTCTCATTGCAAAACAGAGGAGAAATTGCCTGCAGGGTATACGAACAGCCAAA  
 AAGATGGGTGTGCAGTCGGTGGCTGTGTACAGTGAGGCCGACCGGAATTCATGCATGTAGATATGGCAG  
 ACGAGGCATATTCATTGGCCCTGCTCCATCTCAGCAGAGCTACCTCGCAATGGAGAAAATCATTCAAGT  
 GGCCAAGAGCTCTGCAGCACAGGCCATCCATCCAGGCTACGGTTTTCTTTTCGGAAAACATGGAGTTTGCT  
 GAACCTTTGTAAGCAAGAGGGAATCATTTTTATAGTCTCCTCTCGTCTGCAATTAGAGACATGGGTATAA  
 AGAGCACGTCCAAGTCCATCATGGCTGCTGCTGGAGTTCTGTTGTGGAAGGTTACCATGGCAAGGACCA  
 GTCTGATCAGTGCCTGAGAGAGCATGCTGGGAAAATCGGGTATCCTGTTATGATCAAAGCCGTCCGTGGT  
 GGAGGAGAAAAGGCATGAGGATCGTTAGATCAGAGAGAGAATCCAAGAGCAGTTAGAGTCAGCCCGGA  
 GGGAGGCGAAGAAGTCTTTCAATGATGATGCAATGTTGATCGAGAAGTTCGTGGACTCCAAGGCATGT  
 AGAAGTCCAGGTGTTGGTGATCACCATGGCAACGCAGTGTACTGTTTAAAAGAGACTGTAGTGTGCAG  
 AGGCGACATCAGAAGATCATTGAGGAGGCCCCAGCGCCTGGTATTAATCCTGAAGTAAGAAGAAAGCTGG  
 GAGAGGCTGCAGTCAGAGCTGCGAAGGCTGTCAAGTACGTGGGAGCAGGAAGTGTGGAATTCATTATGGA  
 CTCAAAGCACAATTTTTATTTTATGAGATGAACACCAGGCTACAAGTGGAAACATCCTGTCACTGAAATG  
 ATCACAGGACTGACTTGGTGGAGTGGCAGCTCAGGATTGCGAGCAGGAGAGAAGATTCTTTGAGCCAGG  
 AAGAAATCCCTCTGCAGGGCCATGCCTTTGAGGCTAGAATCTATGCAGAAGACCCTGACAATAAATTCAT  
 GCCAGGGGCTGGACCGTTGGTTCATCTCTACCCCTTCGGCAGACATGTCTACGAGGATTGAACTGGA  
 GTCCGGCAAGGAGATGAAGTCTCGGTGCATTACGATCCCATGATCGCAAAGCTCGTTGTGTGGCCCTCAG  
 ACCGCCAGTCAGCCCTGTGCAAGCTGAGGTACTGCCTTCATCAGTACAACATTGTCGGCTTGCAGCA  
 CGTGGACTTCTGCTCCGGCTCTCCGGCCACCCAGAGTTTGAGGCTGGGAACGTGCACACGGACTTCATC  
 CCTCAGCACCAAGGACCTGTGCCGAGTCACAGCACTATAGCCAAAGAGTCTGTGTGCCAGGCAGCTC  
 TGGGGCTCATCCTCAAAGAGAAAAGAAATGACCAGCGCTTTTAACTCCACACTCAAGATCAATTCTCTCC  
 GTTTTCATTACAGCAGTGGGAGAAGACTGAATATCTTTACACCAGGAACATGACTCTGAGAAGTGGTAAA  
 AGTGATATAGTCATAGCTGTGACGTATAACCGCGATGGGTATATGATATGCAGATTGACAACAAGTCTC  
 TCCGAGTCTGGGCGATCTTTCTAGTGAAGATGGCTGTACCTACCTGAAGTCTTCTATTAATGGGGTAGC  
 CCGTAAATCCAAGTTCATCCTCTGGACAACACTGTCCACCTGTTTTCTATGGAAGGCAGTATTGAAGTT  
 GGCATTCCAGTGCCCAAGTACTTGTCTCCAGTGTGAGTGCAGAAGGAGCTCAGGGGGCACCATCGCGCCA  
 TGACTGGAACCATGAAAAGGTGTTTGTGAAAAGCTGGAGACAGAGTAAAAGCTGGAGACTCTCTGATGGT  
 TATGATTGCCATGAAGATGGAGCATACCATAAAGGCTCCAAGGATGGCAGGATAAAGAAGGTATTCTTC  
 AGTGAAGGAGCCCAAGCCAACAGACATGCACCGTTAGTGGAAATTTGAGGAGGAGGAGTCTGACAAATGAG  
 AATCGCAGTGAAGTGTGTCAGAAAAGAAATAGACGACCGCATGGCGCCTTATCTTTCTGCGAACAGCAAG  
 TGCCCTTTCAGTCTTAGATCTCGGAGAGAGGAGCTTTATTAATCAATGATGGTGTGATTATATTTAAA  
 CCCTTTTATAAATTATCTTAAAAGATTTTCATAGAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_023644

**Insert Size:** 2154 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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:** [BC021382](#), [AAH21382](#)

**RefSeq Size:** 2429 bp

**RefSeq ORF:** 2154 bp

**Locus ID:** 72039

**UniProt ID:** [Q99MR8](#)

**Cytogenetics:** 3 B

**Gene Summary:** Biotin-attachment 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]