

Product datasheet for **MG210254**

Mccc1 (NM_023644) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Mccc1 (NM_023644) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mccc1
Synonyms:	1810045E08Rik; 2310058B18Rik; Mcca; MCCalpha; R75106
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG210254 representing NM_023644
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCGGGCGCGCGTGTGGCTGCGGTGGACAGGAACCAAGTTGCGACGGTCCCAGTCTGCTGCTGC
 AGCCGAGGGAATGGCTTGAAGTTGAGAACCATGAAGTATGGAACAACCCAGGAGGAAGCATTACCAA
 GGTCTCATTGCAACAGAGGAGAAATTGCCTGCAGGGTATACGAACAGCCAAAAGATGGGTGTGCAG
 TCGGTGGCTGTGTACAGTGAAGCCGACCGAATTCATGCATGTAGATATGGCAGACGAGGCATATTCCA
 TTGGCCCTGCTCCATCTCAGCAGAGCTACCTCGCAATGGAGAAAATCATTCAAGTGGCCAAGAGCTCTGC
 AGCACAGGCCATCCATCCAGGCTACGGTTTTCTTCGAAAACATGGAGTTTGTGAACCTTTGTAAGCAA
 GAGGGAATCATTTTTATAGTCTCCTTCGTCTGCAATTAGAGACATGGGTATAAAGAGCACGTCCAAGT
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 ATGAGGATCGTTAGATCAGAGAGAGAATCCAAGAGCAGTTAGAGTCAGCCCGGAGGGAGGCGAAGAAGT
 CTTTCAATGATGATGCAATGTTGATCGAGAAGTTCGTGGACACTCCAAGGCATGTAGAAGTCCAGGTGTT
 TGGTGATCACCATGGCAACGCAGTGTACTTGTGTTGAAAGAGACTGTAGTGTGCAGAGGCGACATCAGAAG
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 AGGGCCATGCCTTTGAGGCTAGAATCTATGCAGAAGACCCTGACAATAACTTCATGCCAGGGCTGGACC
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 AAGTACTTGTCTCCAGTGAAGTGCAGAAGGAGCTCAGGGGGGACCATCGCGCCCATGACTGGAACCATTG
 AAAAGGTGTTTGTGAAAGCTGGAGACAGAGTAAAAGCTGGAGACTCTCTGATGGTTATGATTGCCATGAA
 GATGGAGCATACCATAAAGGCTCCAAAGGATGGCAGGATAAAGAAGGTATTCTTCAGTGAAGGAGCCCAA
 GCCAACAGACATGCACCGTTAGTGAATTTGAGGAGGAGGAGTCTGACAAA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >MG210254 representing NM_023644
 Red=Cloning site Green=Tags(s)

MAAAALLAAVDRNQLRRVPILLLQPREWAWKLRTMKYGTTPGGSITKVL IANRGEIACRVIRTAKKMGVQ
 SVAVYSEADRNSMHVDMADAEAYSIGPAPSQSYLAMEKIIQVAKSSAAQAIHPGYGFLSENMEFAELCKQ
 EGIIFIGPPSSAIRDMGIKSTSKSIMAAAGVPVVEGYHGKDQSDQCLREHAGKIGYPMIKAVRGGGKGG
 MRIVRSEREFQEQLSARREAKKSFNDAMLIEKFVDTPRHVEVQVFGDHHGNAVYLFERDCSVQRRHQK
 IIEEAPAPGINPEVRRKLGAAVRAAKAVKYVGAGTVEFIMDSKHNFYFMMNTRLQVEHPVTEMITGTD
 LVEWQLRIAAGEKIPLSQEEIPLQGHAFARIYAEDPDNNFMPGAGPLVHLSTPSADMSTRIETGVRQGD
 EVSVHYDPMIAKLVVWASDRQSALSKLRYLHQYNIIVGLRSNVDFLLRLSGHPEFEAGNVHTDFIPQHHK
 DLLPSHSTIAKESVCQAALGLILKEKEMTSFKLHTQDQFSPFSFSSGRRLNISYTRNMTLRSGKSDIVI
 AVTYNRDGSYDMQIDNKSFRVLGDLSSDGCTYLKSSINGVARKSKFILLDNTVHLFSMEGSIIEVGIPVP
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 ANRHAPLVEFEESDK

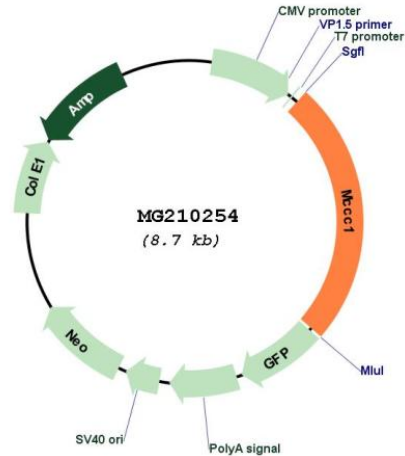
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:


ACCN: NM_023644

ORF Size: 2151 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_023644.3](#)

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]