

## Product datasheet for **MG224804**

### Mccc2 (NM\_030026) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Mccc2 (NM_030026) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Mccc2
Synonyms:	4930552N12Rik; MCCB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224804 representing NM\_030026  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGGGGCGCGCTGAGGTCAGCTCTGCGACCGTGTGTCGGGCTGCTGTACCCCGCAGCGTGCCTATC  
 ACGGGGACTCAGTGGCCGACTGGCACCCAGCCTGACTCGGCCCTCCACCTACCAGGAGAACTATGA  
 GCAGATGAAAGCTTTAGTGAGTCAACTTCATGAGCGAGCCAGTATGTGAGACTAGGAGGGAGTGAGAAG  
 GCCCGGGCGCGCACACATCCAGAGGAAAAGTGTCCCGAGAGACAGAATCGACAATCTCATAGACCCAG  
 GGTCTCCCTTTCTGGAATTCTCCAGTTTGACAGTTACCAGTTATATGGCGACGAGGAAGTCCCCCGCG  
 TGGCATCATCACGGGCATTGGGCGAGTGTGGGGGTAGAATGCATGATTGTGGCTAACGATGCCACCCTC  
 AAAGGAGGCACCTACTACCCAGTACTGTGAAAAAGCACGTGCGGGCACAAGAGATTGCGCTGCAGAACC  
 GACTCCCATGCATCTATCTGTTGACTCAGGAGGGCCAACTTACCTCGCAAGCAGACACCTTTCCAGA  
 CCGGGACCACTTTGGCCGCATATTCTATAATCAGGCAATTATGTCTTCTAAAAACATCACACAGATAGCT  
 GTGGTCATGGGCTCCTGTACGGCAGGAGGTGCGTATGTGCTGCAATGGCTGATGAAAACATCATTGTAC  
 AGAAGCAGGGTACCATCTTCTGGCTGGACCACCTTGGTGAAGGCAGCTACAGGTGAAGAGGTGTCGCG  
 TGAGGATCTCGGAGGTGCCGACCTGCATTGCAGAAAAGTCTGGGGTCACTGACCACTATGCTTTGGACGAC  
 CACCACGCCCTCCACTTAAACAAGGAAGTTGTGAGGAGTCTCAATTATCAGAAGAAAATGGATGTTACCA  
 TTGAGCCTTCTGAGGAGCCCTTGTCCCTGCAGATGAGCTCTATGGAATAGTTGGTGCAAACCTGAAGAG  
 GAGCTTTGATGTCCGAGAGGTCATTGCTAGAATCGTGGATGGAAGCAGATTCAATGAGTTCAAGGCCTTA  
 TATGGAGACACCCTAGTTACAGGATTTGCTCGAATATTTGGGTACCCCGTTGGCATCATTGAAAACAATG  
 GAGTTTTGTTTTCTGAATCTGCTAAGAAGGGTCTCACTTCGTCAGCTGTGCTGCCAGAAAATATCCC  
 TCTGCTGTTTCTCAGAATATCACCGGATTCATGGTTGGCAGAGACTATGAAGCTGAAGGGATTGCCAAG  
 GATGGTGCCAAAATGGTAGCTGCAGTAGCCTGTGCCAAAAGTGCCTAAGATAACTGTCATAATTGGGGGAT  
 CGTACGGGGCTGGAACTACGGAATGTGTGGCAGAGCATACAGTCCAAGGTTTCTCTACATGTGGCCAAA  
 TGCCCGCATCTCTGTGATGGGAGGAGAGCAGGCAGCCACGGTGTAGCCACAGTGGCTAGAGACCAGAAA  
 GCACGCGAGGGGAAGCAGTTCTCCAGTGCAGAGGAGGCAGCTTTGAAAGAACCATCATTAAAGAGTTTCG  
 AAGAGGAAGGGAACCCTTACTACTCTAGTGAAGGCTGTGGGACGATGGGATTATTGACCCGGTGGACAC  
 CAGGCTGGTCTGGGGCTCAGCCTCAGTGCAGCCCTCAATGCGCCATCCAGAGGACTGACTTTGGCATC  
 TTCAGGATG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG224804 representing NM\_030026  
 Red=Cloning site Green=Tags(s)

MW GALRSALRPPCRAAVPPQRAYHGDSVARLGTQPDSSASTYQENYEQMKALVSQLHERAQYVRLGGSEK  
 ARARHTSRGKLLPRDRIDNLDIPGSPFLFSQFAGYQLYGDEEVPAGGIITGIGRVSGVECMIVANDATV  
 KGGTYYPVTVKHHVRAQEIALQNRLPCIYLVDSGGANLPRQADTFPDRDHFGRIFYNQAIMSSKNITQIA  
 VVMGSCTAGGAYVPAMADENIIVQKQGTIFLAGPPLVKAATGEEVSAEDLGGADLHCRKSGVTDHYALDD  
 HHALHLTRKVVRSNLNYQKKMDVTIEPSEEPLFPADEL YGIVGANLKRSFDVREVIARIVDGSRFNEFKAL  
 YGDTLVTGFARIFGYPVGIIGNNGVLFSESAKKGAHFVQLCCQRNIPLLFQONITGMVGRDYEAEGLAK  
 DGAKMVAAVACAKVPKITVIIGSYGAGNYGMCGRAYS PRFLYMWPNARISVMGGEQAATVLATVARDQK  
 AREGKQFSSAEEAALKEPIIKRFEEEGNPYYSSARLWDDGIIDPVDTRLVLGLSLSAALNAPIQRTDFGI  
 FRM

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

SgfI-MluI



<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_030026.2</a> , <a href="#">NP_084302.1</a>
<b>RefSeq Size:</b>	2146 bp
<b>RefSeq ORF:</b>	1692 bp
<b>Locus ID:</b>	78038
<b>UniProt ID:</b>	<a href="#">Q3ULD5</a>
<b>Cytogenetics:</b>	13 D1
<b>Gene Summary:</b>	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]