

Product datasheet for **MC200415**

Pcca (NM_144844) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcca (NM_144844) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pcca
Synonyms:	C79630
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >BC006915 sequence for NM_144844
 CCGACGCGTGGGGCCGGCAAGTCTGCGGGTGGACGATGGCGGGCAGTGGGTCAGGACCGTGGCGCTGT
 TGGCGGCCAGGCGGCATTGGCGCGGTCTCGCAGCAGCAATTGCTGGGGACGCTGAAGCATGCTCCAGT
 CTATTCATACCAATGCCTAGTGGTGTCCAGAAGTCTCAGTTCTGTGGAATATGAGCCTAAAGAAAAGACT
 TTTGATAAAATTCATTGCTAACAGAGGAGAAATTCCTGTAGGGTTATTAACAACTTGAAGAAGATGG
 GCATCAAGACAGTTGCCATTCACAGTGATGTTGATGCCAGTTCTGTTACAGTAAAAATGGCGGATGAGGC
 TGCTGTGTTGGCCAGCTCCCACCAAGTAAAAGCTACCTCAACATGGATGCCATCATGGAAGCCATTAAG
 AAAACCAGGGCCCAAGCTGTACACCCAGGGTATGGATTCTGTGAGAAAACAAAGAGTTTGCAAAGCGTC
 TGGCAGCAGAAGATGTCACTTTCATTGGACCTGATACTCATGCTATTCAAGCCATGGGTGACAAGATAGA
 AAGCAAATATTAGCCAAGAGAGCAAAGGTCAACACAATCCCTGGTTTTGATGGGGTAGTAAAGGATGCA
 GATGAAGCTGTCAGAATTGCAAGGGAAATGGCTACCCTGTGATGATCAAGGCCTCAGCAGGCGGTGGTG
 GGAAAGGCATGCGCATCGCTGGGATGACGAAGAGACCAGGGATGGCTTTAGATTTTATCCCAGGAAGC
 TGCTTCTAGTTTTGGTGTGATAGACTACTAATAGAAAAATTTATCGATAACCCTCGTCATATAGAAATC
 CAGGTTTTAGGGGATAAACATGGCAATGCTCTGTGGCTCAATGAGAGGGAGTGTCTGATCCAGAGAAGGA
 ACCAGAAGGTGGTAGAGGAGGCGCAAGCATTTTTCTGGATCCTGAAACTCGCCAAGCAATGGGAGAGCA
 GGCCGTGGCTTTGGCTAAAGCCGTGAAGTATTCTCTGCTGGAAGTGTGGAATTTCTGTGGACTCCCAG
 AAGAATTTTTACTTCTTGAGATGAATACAAGACTACAGGTGCAACATCCTGTGTCAGAGTGCATTAAGT
 GCCTGGACTTAGTCCAAGAAATGATCCTTGTGTAAGGGTTACCCACTCAGGCACAAGCAAGAGGATAT
 TCCCATCAGTGGCTGGCAGTTGAATGTGCGGTTATGCTGAGGACCCCTACAAGTCTTTGCGTTTTACCG
 TCTATTGGGAGGCTGTCCAGTACCAAGAGCCGATACATCTACCTGGTGTCCGAGTTGACAGTGGCATCC
 AACCAGGAAGTGACATCAGCATCTATTATGATCCTATGATTTCAAAGCTAGTCACATATGGGTCTGACAG
 AGCAGAAGCCCTGAAGAGGATGGAAGACGCACTGGACAATTATGTGATCCGGGGTGTACACACAACATC
 CCATTGCTCCGGGAGGTGATAATCAACACACGTTTTGTGAAAGGAGACATCAGCACTAAGTTTTCTCTCTG
 ATGTGTATCCTGATGGCTTCAAAGGGCACACGTTAACACTGAGTGAGAGAACCAGTTATTGGCCATTGC
 ATCATCTGATTTTGTGGCATCCCAGCTACGAGCTCAGCGCTTCCAAGAAGTTCAGAGTACCAGTTATT
 AGGCCTGATGTGGCTAAGTGGGAGCTCTCGGTAAGTTACATGATGAAGATCATACTGTCGTGGCATCTA
 ACAATGGGCCCGCATTTACCGTGGAAAGTTGATGGCTCGAAACTAAATGTGACCAGTACGTGGAACCTGGC
 GTCACCCTTATTGTCTGTCAACGTTGATGGCACGCAGAGGACTGTGCAGTGTCTTTCTCGGGAAGCAGGT
 GGAACATGAGCATCCAGTTTCTGGCACAGTGTACAAAGTGCACATTTAAACCAAGCTTGTGCAGAGC
 TGAACAAATTCATGCTTGAAGAAAGTGCCCAAGGACACCAGCAGCACTCTGTGCTCCCGATGCCTGGAGT
 GGTGGTGGCCGTTTCTGTCAAGCCTGGAGACATGGTAGCAGAAGTTCAGGAAATCTGTGTGATTGAAGCT
 ATGAAAATGCAGAACAGTATGACAGCTGGGAAAATGGGCAAGGTGAAATGGTGCCTGCAAGCTGGAG
 ACACAGTTGGTGAAGGAGACCTGCTTGTGGAGCTGGAATGAAGTATTTCTAGCCTTTCCGTCAGCACTGC
 TCACTGCTTAACTGGCGTCTCCATTATCTCTAACCTCAATTTGCGCAAGCATTTACAGGAGCACTCC
 TGTGCAGGAGGTTCTACAGCCTCCTGTTTATTCTCAGAAGAGGCAAAACCGACATTCTGCCAACAAATC
 ACCAATGGAAATCTTGATATAAATACTGTACATATGATTTGTACTTCTGCTGAGATTTCTAGTGTCA
 AAATTAATCAATAAAACCAAGCATTTGTCTAAAAAAAAAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_144844

Insert Size: 2175 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: [BC006915](#), [AAH06915](#)

RefSeq Size: 2499 bp

RefSeq ORF: 2175 bp

Locus ID: 110821

UniProt ID: [Q91ZA3](#)

Cytogenetics: 14 65.99 cM

Gene Summary: This is one of the 2 subunits of the biotin-dependent propionyl-CoA carboxylase (PCC), a mitochondrial enzyme involved in the catabolism of odd chain fatty acids, branched-chain amino acids isoleucine, threonine, methionine, and valine and other metabolites. Propionyl-CoA carboxylase catalyzes the carboxylation of propionyl-CoA/propanoyl-CoA to D-methylmalonyl-CoA/(S)-methylmalonyl-CoA (By similarity). Within the holoenzyme, the alpha subunit catalyzes the ATP-dependent carboxylation of the biotin carried by the biotin carboxyl carrier (BCC) domain, while the beta subunit then transfers the carboxyl group from carboxylated biotin to propionyl-CoA (By similarity). Propionyl-CoA carboxylase also significantly acts on butyryl-CoA/butanoyl-CoA, which is converted to ethylmalonyl-CoA/(2S)-ethylmalonyl-CoA (By similarity). Other alternative minor substrates include (2E)-butenoyl-CoA/crotonoyl-CoA (By similarity).[UniProtKB/Swiss-Prot Function]