

Product datasheet for **MC205562**

Pccb (NM_025835) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pccb (NM_025835) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Pccb
Synonyms:	1300012P06Rik; AI314687; R74805
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC055946
 CCCACGCGTCCGAAAAAAAAAAAAAAAAATGGCGGCGGCGATTAGGATTCGGGCGGTGGCGGCTGGAGCGAGG
 CTCAGCGTTCTGAATTGCGGCCTCGGCATCACGACCCGCGGCCTTTGAGCCAGCCGGTTTCAGTTAAAG
 AGCGCATCGACAACAAGCGCCATGCAGCGTTGCTGGGAGGAGGCCAGCGCCGCATCGACGCGCAGCACAA
 GCGAGGGAAGCTAACAGCCAGGGAGCGGATCAGTCTTCTGCTGGATCCTGGCAGCTTCGTGGAGAGCGAC
 ATGTTTGTGGAACACAGATGTGCCGACTTCGGAATGGCTGCTGATAAGAATAAGTTTCTGGAGATAGTG
 TGGTCACTGGACGGGGCCGAATCAATGGACGATTGGTTTATGTCTTCAGTCAGGATTTTACAGTTTTTGG
 AGGCAGTCTGTACAGGAGCACATGCTCAAAAGATCTGCAAAATCATGGACCAGGCCATAACAGTGGGGGCT
 CCAAGTATCGGGCTCAATGACTCCGGGGGCGCCAGAATCCAGGAGGGGGTGGAGTCTTGCTGGCTACG
 CGGACATCTTCTGAGGAATGTACAGCGTCTGGAGTCATCCCGCAGATTTCTGATCATGGGCCCGTG
 TGCTGGTGGGGCGTCTACTCCCTGCCCTAACAGACTTCACATTCATGGTGAAGGACACATTTACCTG
 TTTACTACTGGCCCTGAAGTTGTGAAGTCTGTTACCAATGAGGATGCTCAAGAGCAGCTGGGTGGT
 CCAAGACCCACACCACTGTGTGAGGTGTGGCCATAGAGCTTTGACAATGATGTTGATGCTCTGTGTA
 CCTGCGTGAATTTCAATTTCTGCCCTCAGCAGCCAGGACCCGGCTCCCATCCGAGAGTGCCATGAC
 CCCAGTGACCGTCTGGTTCTGAGCTGGACACAGTTGTCCCTTTGGAGTCAAGCAAGCCTACAACATGC
 TGACATCATCCATGCAGTGATTGACGAGAGAGAGTTTTTTGAGATAATGCCAGTTACGCAAAAAATAT
 TGTCTGGCTTCGCAAGAATGAATGGGAGGACCGTCGGAATTGTCGGCAACCAGCCCAATGTGGCTCA
 GGGTGCTTGACATTAATTCATCCGTGAAGGGGCTCGTTTTGTGAGATTCTGTGACGCATTCAACATTC
 CCCTCATCACTTTCTGTTGACGTCCTGGCTTCTGCTGGCAGCGCGCAGGAGTATGGGGGCATCATCAG
 GCATGGTGCCAAGCTGCTACGCGTTCGCCGAGGCAACTGTGCCAAAAATCACAGTCATCACCAGGAAG
 GCCTATGGAGGTGCCTATGACGTCATGAGCTCCAACACCTTCTTGGTGACACCAACTATGCCTGGCCCA
 CAGCTGAGATTGCAGTCATGGGAGCAAAGGGTGTGGAGATCATCTTCAAAGGACCAAGATGTGGA
 AGCCGCCAGGCAGAGTATGTGGAGAAGTTCGCCAACCTTTCCAGCAGCCGTGAGAGGGTTTGTGGAT
 GACATCATCCAGCCATCCTCTACTCGTGTGCGGATATGCTGTGACCTGGAAGTCTGGCCAGCAAGAAGG
 TCCATCGTCCCTGGAGGAAACATGCAAATATCCCACTGTGAGCAGATGGAAGGGACTAGAGCAACAGTTG
 AAAAGCTGGCCTTTTGCAGCGTACCCTCCCTGCCTTTTACAATCATGAAAAATGGATCTATGTATCTT
 GGACACTGATTGATTTGCATAAAGAGTTCTTGGGCCTGGAGTAAACTATGTGCTCTATTAATCATTG
 GTACTTTTGAATAAATATTTTATTGTTATAGTAAAAATCTCAATCTTAAACAAGAAAGCCAGAAGGAGG
 CGGGGGATGGAATCGTAGTTGACTGAATCTGGCTCTGGTTCACACTGATGTGGGTATGATTTTTGTGGCC
 CTCAGAGGTCGACATGCTGGAGTTGAACTCCGTGTGGGGTGGTGGAGCAGAGAGATAGTGGGAGATGC
 TGTGGTCACTGGCTGGCTCTGTGCTGAAGAGGCTAAGAGTTCTTAGTCTTTCCAGCTGCTCGATG
 GCTATGTGATGCTCGATATTCCCCACCCATGTGGGCTCCATGGTGTGATACACCAGGAGGGTTGTCA
 CCAGAACTCACTGATGTAATGCCTTGCCATTGGATCTCAGAATTATGAGCTAATTAACCCCAACCT
 TTCATAAAATTAACCTGCCTTCAAGATTTTGTATAGTAATAAAAGCGGATTAATTAACATAAAAAA AAAAAAAAAAAAA

Restriction Sites: RsrII-NotI

ACCN: NM_025835

Insert Size: 1626 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: [BC055946](#), [AAH55946](#)

RefSeq Size: 2323 bp

RefSeq ORF: 1626 bp

Locus ID: 66904

UniProt ID: [Q99MN9](#)

Cytogenetics: 9 E4

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]

Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).