

Product datasheet for **SC119822**

PCCB (NM_000532) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCCB (NM_000532) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCCB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC119822 sequence for NM_000532 edited (data generated by NextGen Sequencing)

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ATGGCGGCGGCATTACGGGTGGCGGCGGTGCGGGCAAGGCTCAGCGTTCTGGCGAGCGGT
CTCCGCGCGCGGTCCGAGCCTTTGCAGCCAGGCCACCTCTGTTAACGAACGCATCGAA
AACAGCGCCGGACCGCGCTGCTGGGAGGGGGCCAACGCCGATTGACGCGCAGCACAAG
CGAGGAAAGCTAACAGCCAGGGAGAGGATCAGTCTCTTGCTGGACCCTGGCAGCTTTGTT
GAGAGCGACATGTTTGTGGAACACAGATGTGCAGATTTTGAATGGCTGCTGATAAGAAT
AAGTTTCTGGAGACAGCGTGGTCACTGGACGAGGCCGAATCAATGGAAGATTGGTTTAT
GTCTTCAGTCAGGATTTTACAGTTTTTGGAGGCAGTCTGTCAGGAGCACATGCCAAAAG
ATCTGCAAAATCATGGACCAGGCCATAACGGTGGGGGCTCCAGTGATTGGGCTGAATGAC
TCTGGGGGAGCACGGATCCAAGAAGGAGTGGAGTCTTTGGCTGGCTATGCAGACATCTTT
CTGAGGAATGTTACGGCATCCGGAGTCATCCCTCAGATTTCTCTGATCATGGGCCATGT
GCTGGTGGGGCCGTCTACTCCCCAGCCCTAACAGACTTCACGTTTCATGGTAAAGGACACC
TCCTACCTGTTTCATCACTGGCCCTGATGTTGTGAAGTCTGTCACCAATGAGGATGTTACC
CAGGAGGAGCTCGGTGGTGCCAAGACCCACACCACCATGTCAGGTGTGGCCACAGAGCT
TTTGAAAATGATGTTGATGCCTTGTAATCTCCGGGATTTCTTCAACTACCTGCCCTG
AGCAGTCAGGACCCGGCTCCCGTCCGTGAGTGCCACGATCCCAGTGACCGTCTGGTTCCT
GAGCTTGACACAATTGTCCCTTTGGAATCAACCAAAGCCTACAACATGGTGGACATCATA
CACTCTGTTGTTGATGAGCGTGAATTTTTTGGATCATGCCCAATTATGCCAAGAATC
ATTGTTGGTTTTGCAAGAATGAATGGGAGGACTGTTGGAATTGTTGGCAACCAACCTAAG
GTGGCCTCAGGATGCTTGGATATTAATTCATCTGTGAAAGGGGCTCGTTTTGTCAGATTC
TGTGATGCATTCAATATCCACTCATCACTTTTGTGATGTCCCTGGCTTTCTACCTGGC
ACAGCACAGGAATACGGGGGCATCATCCGGCATGGTGCCAAGCTTCTCTACGATTTGCT
GAGGCAACTGTACCCAAAGTCAAGTCATCACCAGGAAGGCCTATGGAGGTGCCTATGAT
GTCATGAGCTCTAAGCACCTTTGTGGTGATACCAACTATGCCTGGCCACCGCAGAGATT
GCAGTCATGGGAGCAAAGGGCGCTGTGGAGATCATCTTCAAAGGGCATGAGAATGTGAA
GCTGCTCAGGCAGAGTACATCGAGAAGTTTGCCAAACCTTTCCCTGCAGCAGTGCAGGG
TTTGTGGATGACATCATCAACCTTTCTCCACAGTGGCCGAATCTGCTGTGACCTGGAT
GTCTTGCCAGCAAGAAGGTACAACGCTCTTGAGAAAACATGCAAAATATTCATTGTAA
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Clone variation with respect to NM_000532.4

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_000532 unedited

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GGTCAAAATTTGTATACGACTCCTATAGGGCGGCCGCGATTGCGCACGAGGCCTCGTGCC
GAATTCGGCACGAGGGCCGGCACAGCAAAAAGCGGGCGGCGATTACGGGTGGCGGCGGTG
GGGCAAGGCTCAGCGTTCTGGCGAGCGGTCTCCGCGCGCGGTCCGAGCCTTTGCAGCC
AGGCCACCTCTGTTAACGAACGCATCGAAAACAAGCGCCGGACCGCGCTGCTGGGAGGG
GCCAACGCCGATTGACGCGCAGCACAAGCGAGGAAAGCTAACAGCCAGGGAGAGGATCA
GTCTCTTGCTGGACCCTGGCAGCTTTGTTGAGAGCGACATGTTTGTGGAACACAGATGTG
CAGATTTTGAATGGCTGCTGATAAGAATAAGTTTCTTGAGACAGCGTGGTCACTGGAC
GAGGCCGAATCAATGGAAGATTGGTTTATGTCTTCAGTCAGGATTTTACAGTTTTTGGAG
GCAGTCTGTGAGGAGCATGCCAAAAGATCTGCAAAATCATGGACCAGGCCATAACGG
TGGGGGCTCCAGTGATTGGGCTGAATGACTCTGGGGGAGCACGGATCCAAGAAGGAGTGG
AGTCTTTGGCTGGCTATGCAGACATCTTCTGAGGAATGTTACGGCATCCGGAGTCATCC
CTCAGATTTCTGATCATGGGCCCATGTGCTGGTGGGGCCGTCTACTCCCCAGCCCTAA
CAGACTTCAGTTTCATGGTAAAGGACACCTCCTACCTGTTTCATCACTGGCCCTGATGTTG
TGAAGTCTGTACCATGGAAGATGTTACCCAGGAAGAGCCTGGGTGGTGCCAAGACCCCA
CCACCATGTGAGGTGTGCCACAGAAGCTTTGAAAAGAAGGTGAAGCCTTGTTAACTC
TCGGGATTT
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3' Read Nucleotide Sequence:	>OriGene 3' read for NM_000532 unedited <pre> GGCCGCAATCTANAGTCGAGTTTTTTTTTTTTTTTTTACTATTTTTCTTTCTAGTTGTA TTGATTTTTTCAGATTTCCACCTAAAAAATCGAATTTATGCTCAAAAAATACAACCTAAA ATGTTTAAAAAAGTAAATAATTTTACAGTAAGGCACAAAAGAGATCTTTCTAGAATTTAA TAAACTTAGTTATTCTAAGTTATCCAACATTTGGATTCCCAGGTTTCATGATTGCAAAA GGCAGGAATGGGATGTGAATGGGCAGACAGTAATTCAGTTCTTGGTTTCTTTTCTTTGA TTTGTTTACAATGGAATATTTGCATGTTTTCTCCAAGGACGTTGTACCTCTTGCTGGCC AAGACATCCAGGTCACAGCAGATTTCGGGCACGTGTGGAAGAAGTTGGATGATGTCATCC ACAAACCTCGCACTGCTGCAGGAAAGGTTGGCAAACTTCTCGATGTACTCTGCCTGA GCAGCTTCCACATTCTCATGCCCTTTGAAGATGATCTCCACAGCGCCCTTTGCTCCCATG ACTGCAATCTCTGCGGTGGGCCAGGCATAGTTGGTATCACCACAAAGGTGCTTAGAGCTC ATGACATCATAGGCACCTCCATAGGCCTTCCTGGTGATGACTGTGACTTTGGGTACAGTT GCCTCAGCAAATGCGTAGAGAAGCTTGGCACCATGCCGGATGATGCCCCGTATTCCTGT GCTGTGCCAGGTAGAAAGCCAGGGACATCAACAAAAGTGATGAGTGGGATATTGAATGCA TCACAGAACTGACAAAACGAGCCCTTTCACAGATGAAATATATTCAGCATCCTGAGGG CCACTTAGGTTGGTTGCCACAATNNCACAGTNNCTCCATCATTCTTGCAAAACAACATGA TGGTTTGGGCATATGGGCATGATCTACAAAATCACGCTATAACACACGAGGATGATGTCA CCTGTTGNAGCCTTGGTGATCCCAAGAC </pre>
Restriction Sites:	ECORI-NOT
ACCN:	NM_000532
Insert Size:	1960 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:	<u>NM_000532.2</u> , <u>NP_000523.1</u>
RefSeq Size:	1829 bp
RefSeq ORF:	1620 bp
Locus ID:	5096
UniProt ID:	<u>P05166</u>
Cytogenetics:	3q22.3
Domains:	Carboxyl_trans

Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation
Gene Summary:	The protein encoded by this gene is a subunit of the propionyl-CoA carboxylase (PCC) enzyme, which is involved in the catabolism of propionyl-CoA. PCC is a mitochondrial enzyme that probably acts as a dodecamer of six alpha subunits and six beta subunits. This gene encodes the beta subunit of PCC. Defects in this gene are a cause of propionic acidemia type II (PA-2). Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2010] Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter isoform (1).