

## Product datasheet for **SC323905**

### **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:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_000532.3  
 GGGGACGCGCCGGCACAGCAAAAATGGCGGCGGCATTACGGGTGGCGGCGGTGCGGGCAA  
 GGCTCAGCGTTCTGGCGAGCGGTCTCCGCGCCGCGGTCCGCAGCCTTTCAGCCAGGCCA  
 CCTCTGTTAACGAACGCATCGAAAAAAGCGCCGACCGCGCTGCTGGGAGGGGGCCAAC  
 GCCGTATTGACGCGCAGCACAAGCGAGGAAAGCTAACAGCCAGGGAGAGGATCAGTCTCT  
 TGCTGGACCCTGGCAGCTTTGTTGAGAGCGACATGTTTGTGGAACACAGATGTGCAGATT  
 TTGGAATGGCTGCTGATAAGAATAAGTTTCTGGAGACAGCGTGGTCACTGGACGAGGCC  
 GAATCAATGGAAGATTGGTTTATGTCTTCAAGTCAGGATTTTACAGTTTTTGGAGGAGTC  
 TGTCAGGAGCACATGCCAAAAGATCTGCAAAAATCATGGACCAGGCCATAACGGTGGGGG  
 CTCCAGTGATTGGGCTGAATGACTCTGGGGGAGCACGGATCCAAGAAGGAGTGGAGTCTT  
 TGGCTGGCTATGCAGACATCTTCTGAGGAATGTTACGGCATCCGGAGTCATCCCTCAGA  
 TTTCTCTGATCATGGGCCATGTGCTGGTGGGGCCGTCTACTCCCAGCCCTAACAGACT  
 TCACGTTTCATGGTAAAGGACACCTCCTACCTGTTCACTACTGGCCCTGATGTTGTGAAGT  
 CTGTCACCAATGAGGATGTTACCCAGGAGGAGCTCGGTGGTGCCTAAGACCCACACCACCA  
 TGTCAGGTGTGGCCACAGAGCTTTTAAAATGATGTTGATGCCTTGTAATCTCCGGG  
 ATTTCTTCAACTACCTGCCCTGAGCAGTCAGGACCCGGCTCCCGTCCGTGAGTGCCACG  
 ATCCCAGTGACCGTCTGGTTCCTGAGCTTGACACAATTGCCCTTGAATCAACCAAAG  
 CCTACAACATGGTGGACATCATACACTCTGTTGTTGATGAGCGTGAATTTTTTGAGATCA  
 TGCCCAATTATGCCAAGAACATCATTGTTGGTTTTGCAAGAAATGAATGGGAGGACTGTTG  
 GAATTGTTGGCAACCAACCTAAGGTGGCCTCAGGATGCTTGGATATTAATTCATCTGTGA  
 AAGGGGCTCGTTTTGTCAGATTCTGTGATGCATTCAATATCCACTCATCACTTTTGTG  
 ATGTCCCTGGCTTTCTACCTGGCACAGCACAGGAATACGGGGGCATCATCCGGCATGGTG  
 CCAAGCTTCTCTACGCAATTTGCTGAGGCAACTGTACCCAAAGTCACAGTCATACCAGGA  
 AGGCCTATGGAGGTGCCTATGATGTCATGAGCTCTAAGCACCTTTGTGGTGATACCAACT  
 ATGCCTGGCCACCGCAGAGATTGCAGTCATGGGAGCAAAGGGCGCTGTGGAGATCATCT  
 TCAAAGGGCATGAGAATGTGGAAGCTGCTCAGGCAGAGTACATCGAGAAGTTTGCCAACC  
 CTTTCCCTGCAGCAGTGCAGGGTTTTGTGGATGACATCATCCAACCTTCTCCACACGTG  
 CCCGAATCTGCTGTGACCTGGATGTCTTGGCCAGCAAGAAGGTACAACGTCCTTGGAGAA  
 AACATGCAAAATATCCATTGTAACAAAACAAAGGAAAAGAAAACCAAGAAGTGAATTACT  
 GTCTGCCCATTCACATCCATTCCTGCCTTTTGAATCATGAAACCTGGGAATCCAAATA  
 GTTGGATAACTTAGAATAACTAAGTTTATTAATCTAGAAAGATCAAAAAAAAAAAAAA  
 A

**Restriction Sites:** ECoRI-NOT

**ACCN:** NM\_000532

**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).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

**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).

<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>	<u><a href="#">NM_000532.3</a></u> , <u><a href="#">NP_000523.2</a></u>
<b>RefSeq Size:</b>	1829 bp
<b>RefSeq ORF:</b>	1620 bp
<b>Locus ID:</b>	5096
<b>UniProt ID:</b>	<u><a href="#">P05166</a></u>
<b>Cytogenetics:</b>	3q22.3
<b>Domains:</b>	Carboxyl_trans
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (1) represents the shorter transcript and encodes the shorter isoform (1).</p>