

## Product datasheet for **SC106305**

### **PCCA (AF385926) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	PCCA (AF385926) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCCA
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for AF385926, the custom clone sequence may differ by one or more nucleotides

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ATGGCGGGGTTCTGGGTCGGGACAGCACCGCTGGTCGCTGCCGGACGGCGTGGGCGGTGGCCGCCGAGC
AGCTGATGCTGAGCGCGCGCTGCGGACCCTGAAGCATGTTCTGTAATTTCAAGACAGTGCTTAATGGT
GTCCCGTAATCTTGTTTCAAGTGGGATATGATCCTAATGAAAAAATTTTGATAAAATTTCTGTTGCTAAT
AGAGGAGAAATTGCATGTCGGGTTATTAGAACTTGCAAGAAGATGGGCATTAAGACAGTTGCCATCCACA
GTGATGTTGATGCTAGTTCTGTTTCAAGTGGGATGAGGCTGTCTGTGTTGGCCAGCTCCAC
CAGTAAAAGCTACCTCAACATGGATGCCATCATGGAAGCCATTAAGAAAACCAGGGCCCAAGCTGTACAT
CCAGGTTATGGATTCTTTTCAAGAAACAAGAATTTGCCAGATGTTTGGCAGCAGAAGATGTCGTTTTCA
TTGGACCTGACACACATGCTATTCAAGCCATGGGCGACAAGATTGAAAGCAAATTTAGCTAAGAAAGC
AGAGGTTAATAACAATCCCTGGCTTTGATGGAGTAGTCAAGGATGCAGAAGAAGCTGTCAGAATTGCAAGG
GAAATTTGGCTACCCTGTCATGATCAAGGCTCAGCAGGTGGTGGTGGGAAAGGCATGCCATTGCTTGGG
ATGATGAAGAGACCAGGGATGGTTTTAGATTGTCATCTCAAGAAGCTGCTTCTAGTTTTGGCGATGATAG
ACTACTAATAGAAAAATTTATTGATAATCCTCGTCATATAGAAATCCAGGTTCTAGGTGATAAACATGGG
AATGCTTTATGGCTTAATGAAAGAGAGTCTCAATTCAGAGAAGAAATCAGAAGGTGGTGGAGGAAGCAC
CAAGCATTTTTTTGGATGCGGAGACTCGAAGAGCGATGGGAGAACAAGCTGTAGCTCTTGGCAGAGCAGT
AAAATATCTCTGCTGGGACCCTGGAGTTCCTTGTGGACTCTAAGAAGAATTTTTATTTCTTGGAAATG
AATACAAGACTCCAGGTTGAGCATCCTGTCACAGAATGCATTACTGGCCTGGACCTAGTCCAGGAAATGA
TCCGTGTTGCTAAGGGCTACCCTCTCAGGCACAAACAAGCTGATATTCCGATCAACGGCTGGGCAGTTGA
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CAAGAACCGTTACATCTACCTGGTGTCCGAGTGGACAGTGGCATCCAACCAGGAAGTATAGCATT
ATTATGATCCTATGATTTCAAAACTAATCACATATGGCTCTGATAGAAGTGGGACTGAAGAGAATGGC
AGATGCACTGGATAACTATGTTATTCGAGGTGTTACACATAATATTGCATTACTTCGAGAGGTGATAATC
AACTCACGCTTTGTAAGGAGACATCAGCACTAAATTTCTCTCCGATGTGTATCCTGATGGCTTCAAAG
GACACATGCTAACCAAGAGTGAAGAAGCAGTTATTGGCAATAGCATCATCATTGTTTGTGGCATTCCA
GTTAAGAGCACAAATTTCAAGAAAATTCAGAATGCCTGTTATTAACCAGACATAGCCAACTGGGAG
CTCTCAGTAAAATTCATGATAAAGTTCATACCGTAGTAGCATCAACAATGGGTCAGTGTCTCGGTGG
AAGTTGATGGGTCGAAACTAAATGTGACCAGCACGTGGAACCTGGCTTCGCCCTTATTGCTGTCAGCGT
TGATGGCACTCAGAGGACTGTCCAGTGTCTTTCTCGAGAAGCAGGTGGAACATGAGCATTGAGTTTCTT
GGTACAGTGTACAAGGTGAATATCTTAACCAGACTTGCCGAGAATTGAACAAATTTATGCTGGAAAAAG
TGACTGAGGACACAAGCAGTGTCTGCGTTCGCCGATGCCCGGAGTGGTGGTGGCCGCTCTGTCAAGCC
TGGAGACGCGGTAGCAGAAGGTCAAGAAAATTTGTGTGATTGAAGCCATGAAAATGCAGAATAGTATGACA
GCTGGGAAAACCTGGCACGGTGAATCTGTGCACTGTCAAGCTGGAGACACAGTTGGAGAAGGGGATCTGC
TCGTGGAGCTGGAATGA
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<b>5' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 5' read for AF385926 unedited            GAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGCCTCGTGCCGAATTCGGC            ACGAGGGGTGACAGAGGGGGCGGTCTGCGGGGACAACAATGGCGGGGTTCTGGGTCGGGA            CAGCACCCTGGTCTGCTGCCGGACGGCTGGGCGGTGGCCGCCGACGAGCTGATGCTGA            GCGCGGCTGCGGACCTGAAGCATGTTCTGTACTATCAAGACAGTGCCTAATGGTGT            CCCGTAATCTTGGTTCAGTGGGATATGATCCTAATGAAAAACTTTTGATAAAAATCTTG            TTGCTAATAGAGGAGAAAATGTCATGTCGGGTTATTAGAAGTTCGAAGAAGATGGGCATTA            AGACAGTTGCCATCCACAGTGTGTTGATGCTAGTTCTGTTTCATGTGAAAATGGCGGATG            AGGCTGTCTGTGTGGCCAGCTCCACACGATAAAGCTACCTCAACATGGATGCCATCA            TGGAAAGCCATTAAGAAAACAGGGCCCAAGCTGTACATCCAGGTTATGGATTCCTTTTCAG            AAAACAAAGAATTTGCCAGATGTTTGGCAGCAGAAGATGTCGTTTTTCATTGGACCTGACA            CACATGCTATTCAAGCCATGGGCGACAAGATTGAAAGCAAATTTAGCTAAGAAAGCAG            AGGTTAATAACAATCCCTGGCTNTGATGGAGTAGTCAAGGATGCAGAAGAAGCTGCAGAA            TTGCAAGGGAAAATGGCTACCCTGTCATGATCAAGGCCTCAGCANGTGGTGGTGGGGAAA            GCATGCGCATTGCTTGGGATGATGAAAAGACAGNGATGGTTNNTAGATTGTCATCTCAA            GAAAGCTGCTTCTAGTTTGGGCGATGATAGACTACTAATAGAANAATTTATTGATNNAT            CCTCGCATATAGAATCN</p>
<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for AF385926 unedited            CGCAATCTAGAGTCGAGTNNTTAAACAAA            TGCTCAGTTTTATTGATTTAATTTTGGACTAGGGAATCTCACAGCAGAAGTACAATCA            TATGTACAAGTATTTATCAATGAAAATTTCCATTGGTATTTTTTGGCAAAAATATTGG            TCTTGACTCTGTGGAATAAATGACGACGTAACGTAGCTGCACAGGGGTGTTCTCTGTATA            ATGCTTGAATCAATTGTGTGTGAAAGCATCATGCAATGGCTAATTAATTTGGGTGATGA            CTGAAAGGTTATAAATCCTTCATTCCAGCTCCACGAGCAGATCCCCTTCTCCAAGTGTG            CTCCAGCTTGACAGTGCACAGATTTACCGTGCCAGTTTTCCAGCTGTCATACTATTCT            GCATTTTCATGGCTTCAATCACACAAAATTTCTTGACCTTCTGCTACCGCGTCTCCAGGCT            TGACAGATACGGCCACCACCACTCCGGGCATCGGGGAACGCAGAACAACACTGCTTGTGTCCT            CAGTCACTTTTTCCAGCATAAATTTGTTCAATTTGCGGCAAGTCTGGTTAAGATATTCA            CCTTGTACACTGTACCAAGAAACTGAATGCTCATGTTTCCACCTGCTTCTCGAGAAGAC            ACTGGACAGTCCCTGAGTGCCATCAACGCTGACAGACAATAAGGGCGAAAGCCAGTTCC            ACGTGCTGGTACATTTAGTTTCGACCCATCAACTCCACGAGAACAACACTGACCCATTGTT            TGATGCTACTACGGTATGAACTTTATTATGCAATTTTACTGAAAGCTCCCATTGGCTATG            TCTGGTTAATAACAAGCATCCTTGATTTTCTTGAAGTTGGGCCTTCTACTGGATGCC            CAACATGAGGAGCCTTGCCAAAAGTCTCTNACTCTTGGAACAGGGGGCTTGGACCT            CCAGATCCCTCGGAAAAATTTAGCGAGTGCCTTTAAAACGGGG</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	AF385926
<b>Insert Size:</b>	2620 bp
<b>OTI Disclaimer:</b>	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).
<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="#">AF385926.1</a> , <a href="#">AAL66189.1</a>
<b>RefSeq Size:</b>	2488 bp
<b>RefSeq ORF:</b>	2187 bp
<b>Locus ID:</b>	5095
<b>Cytogenetics:</b>	13q32.3
<b>Domains:</b>	biotin_lipoyl, CPSase_L_D2, CPSase_L_chain, Biotin_carb_C
<b>Protein Families:</b>	Druggable Genome
<b>Protein Pathways:</b>	Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation
<b>Gene Summary:</b>	The protein encoded by this gene is the alpha subunit of the heterodimeric mitochondrial enzyme Propionyl-CoA carboxylase. PCCA encodes the biotin-binding region of this enzyme. Mutations in either PCCA or PCCB (encoding the beta subunit) lead to an enzyme deficiency resulting in propionic acidemia. Multiple transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, May 2010]