

## Product datasheet for **SC319643**

### PPCDC (NM\_021823) Human Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PPCDC (NM\_021823) Human Untagged Clone  
**Tag:** Tag Free  
**Symbol:** PPCDC  
**Synonyms:** coaC; MDS018; PPC-DC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC (PS100020)  
**E. coli Selection:** Ampicillin (100 ug/mL)

**Fully Sequenced ORF:** >OriGene sequence for NM\_021823.3  
 CCTAAATCCCACAGCTTTATAGAGCCAGGCTGGCAGGCTCCCAGAACTTGAAGCCAC  
 CAGACCCACATGGAACCAAGGCTCCTGTCCAGCTGCTGCACCCTTGATGGAGAGAAA  
 ATTCCATGTTCTGTGGGTGTACGCGGGAGTGTGCGAGCCCTGAAGTTGCCTCTTCTGGT  
 GTCAAAGCTTTTGGACATTCTGGGCTGGAAGTAGCAGTGGTCACAACCTGAGAGAGCCAA  
 ACATTTCTACAGCCCCAGGACATTCTGTACCCTCTACAGCGACGCTGATGAATGGGA  
 GATGTGGAAGAGCCGCTCTGACCCAGTTCTGCACATTGACCTGCGGAGGTGGCAGACCT  
 CCTGCTGGTGGCTCCTTTGATGCCAACACTCTGGGGAAGGTGGCCAGTGGCATCTGTGA  
 CAACTTGTACCTGCGTCATGCGGGCCTGGGACCGCAGCAAGCCCTGCTTTCTGCC  
 GGCCATGAACACCGCCATGTGGGAGCACCCGATCACAGCGCAGCAGGTAGACCAGCTCAA  
 GGCTTTGGCTATGTCGAGATCCCCTGTGTGGCCAAGAAGCTGGTGTGCGGAGATGAAGG  
 TCTCGGGGCCATGGCTGAAGTGGGGACCATCGTGGACAAAGTGAAGAAGTCTCTTCCA  
 GCACAGTGGCTTCCAGCAGAGTTGACCTGGGATTTCTGTTCATGGGTGCCCTCTGTACTC  
 AGAATGGGTTCCAGGCCAAGTCCGGTGAAGATGGATGTTGGCAAAATAGGAGGATACCTCA  
 TTTGCTGAATGGGGACCTGCTCTGAGCCTGCCAGGGGCCAGGCCTGCTCCAGGTTAAA  
 CTGGACGGAAGGCCAGGTCTCAGTTTCTTTCAACCAGGAGAGGCCGCTGCCTAGAGCCC  
 CTCCCCACCTTTTCTGGATGGGTGAGGCAAGCCAGGAGAGCAAGCAGTGTGTCCCTCAC  
 GGGAGGAGGGGTGAGCGACTGGGAAAACCGGCTCTACATCTACCCAGAACGGCTTTTA  
 GAAACACCACAGCTGGAGAGTCTGGCTGAGCCTTGGGAGTTTTCAGCTTTTGGCGGGT  
 GCCCAGGTGCCATGCGATCAGCGAAGCCTGCGAGTTGGCAGGACTCTGAGTTTCTCTGCA  
 GACCATGCCATGAGATTGAAGGTGCGGGGAAATAAAGAAAAATCACCATTAAAAA  
 AA

**Restriction Sites:** Please inquire  
**ACCN:** NM\_021823



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<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>OTI Annotation:</b>	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.
<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>	<u><a href="#">NM_021823.3</a></u> , <u><a href="#">NP_068595.3</a></u>
<b>RefSeq Size:</b>	2268 bp
<b>RefSeq ORF:</b>	615 bp
<b>Locus ID:</b>	60490
<b>UniProt ID:</b>	<u><a href="#">Q96CD2</a></u>
<b>Cytogenetics:</b>	15q24.2
<b>Domains:</b>	Flavoprotein
<b>Protein Pathways:</b>	Metabolic pathways, Pantothenate and CoA biosynthesis
<b>Gene Summary:</b>	<p>Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. PPCDC (EC 4.1.1.36), one of the last enzymes in this pathway, converts phosphopantothenoylcysteine to 4-prime-phosphopantetheine (Daugherty et al., 2002 [PubMed 11923312]).[supplied by OMIM, Mar 2008]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>