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# Product datasheet for SC334156

## PPCDC (NM_001301102) Human Untagged Clone

### Product data:

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| **Product Type:** | Expression Plasmids |
| **Product Name:** | PPCDC (NM_001301102) Human Untagged Clone |
| **Tag:** | Tag Free |
| **Symbol:** | PPCDC |
| **Synonyms:** | coaC; MDS018; PPC-DC |
| **Mammalian Cell Selection:** | Neomycin |
| **Vector:** | pCMV6-Entry (PS100001) |
| **E. coli Selection:** | Kanamycin (25 ug/mL) |
| **Fully Sequenced ORF:** | >NCBI ORF sequence for NM_001301102, the custom clone sequence may differ by one or more nucleotides |

ATGGAACCAAAGGCCTCCTGTCCAGCTGCTGCACCCTTGATGGAGAGAAAATTCCATGTTCTTGTGGGTG
TCACGGGGAGTGTCGCAGCCCTGAAGTTGCCTCTTCTGGTGTCAAAGCTTTTGGACATTCCTGGGATATG
GAAGAGCCGCTCTGACCCAGTTCTGCACATTGACCTGCGGAGGTGGGCAGACCTCCTGCTGGTGGCTCCT
CTTGATGCCAACACTCTGGGGAAGGTGGCCAGTGGCATCTGTGACAACTTGCTTACCTGCGTCATGCGGG
CCTGGGACCGCAGCAAGCCCCTGCTCTTCTGCCCGGCCATGAACACCGCCATGTGGGAGCACCCGATCAC
AGCGCAGCAGGTAGACCAGCTCAAGGCCTTTGGCTATGTCGAGATCCCCTGTGTGGCCAAGAAGCTGGTG
TGCGGAGATGAAGGTCTCGGGGCCATGGCTGAAGTGGGGACCATCGTGGACAAAGTGAAAGAAGTCCTCT
TCCAGCACAGTGGCTTCCAGCAGAGTTGA

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| **Restriction Sites:** | SgfI-MluI |
| **ACCN:** | NM_001301102 |
| **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). |

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| **Reconstitution Method:** | 1. Centrifuge at 5,000xg for 5min.<br>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.<br>3. Close the tube and incubate for 10 minutes at room temperature.<br>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.<br>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:** | NM_001301102.1, NP_001288031.1 |
| **RefSeq Size:** | 2172 bp |
| **RefSeq ORF:** | 519 bp |
| **Locus ID:** | 60490 |
| **UniProt ID:** | Q96CD2 |
| **Cytogenetics:** | 15q24.2 |
| **Protein Pathways:** | Metabolic pathways, Pantothenate and CoA biosynthesis |
| **Gene Summary:** | 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]<br>Transcript Variant: This variant (3) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1, resulting in an isoform (c) that is shorter than isoform a. |