

## Product datasheet for **SC333402**

### PPCDC (NM\_001301105) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PPCDC (NM_001301105) 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:	>SC333402 representing NM_001301105. Blue=Insert sequence Red=Cloning site Green=Tag(s)

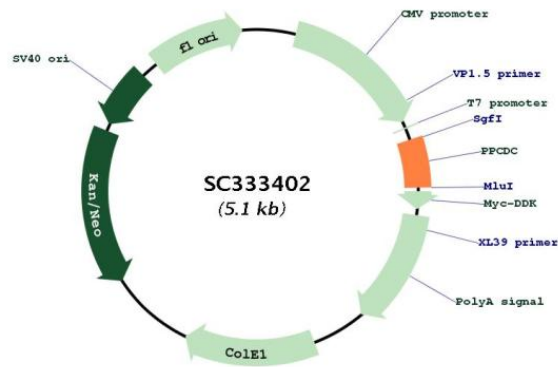
```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGGGCCTGGGACCGCAGCAAGCCCCTGCTCTTCTGCCGGCCATGAACACCGCCATGTGGGAGCAC
CCGATCACAGCGCAGCAGGTAGACCAGCTCAAGGCCTTTGGCTATGTCGAGATCCCCTGTGTGGCCAAG
AAGCTGGTGTGCGGAGATGAAGTCTCGGGCCATGGCTGAAGTGGGACCATCGTGGACAAAGTAAA
GAAGTCTCTCCAGCACAGTGGCTTCCAGCAGAGTTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM\_001301105

Insert Size: 246 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).

<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>NM_001301105.1</u>
<b>RefSeq Size:</b>	2065 bp
<b>RefSeq ORF:</b>	246 bp
<b>Locus ID:</b>	60490
<b>UniProt ID:</b>	<u>Q96CD2</u>
<b>Cytogenetics:</b>	15q24.2
<b>Protein Pathways:</b>	Metabolic pathways, Pantothenate and CoA biosynthesis
<b>MW:</b>	9 kDa
<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 (6) contains alternate 5' exon structure, and it thus differs in the 5' UTR, lacks a portion of the 5' coding region and initiates translation at a downstream in-frame start codon, compared to variant 1. The encoded isoform (e) is shorter at the N-terminus, compared to isoform a. Both variants 5 and 6 encode isoform e.</p>