

Product datasheet for **SC333770**

PPCDC (NM_001301103) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPCDC (NM_001301103) 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:	>SC333770 representing NM_001301103. Blue=Insert sequence Red=Cloning site Green=Tag(s)

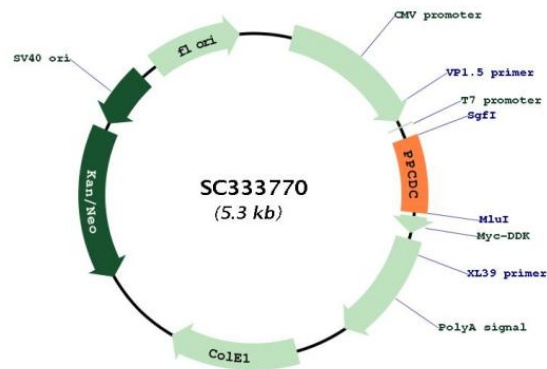
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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGAACCAAAGGCCTCCTGTCCAGCTGCTGCACCCTTGATGGAGAGAAAATCCATGTTCTTGTGGGT
GTCACGGGGAGTGTGCGAGCCCTGAAGTTGCCTCTTCTGGTGTCAAAGCTTTTGGACATTCCTGGGACC
TGCGTCATGCGGGCCTGGGACCGCAGCAAGCCCTGCTCTTCTGCCGGCCATGAACACCGCCATGTGG
GAGCACCCGATCACAGCGCAGCAGGTAGACCAGCTCAAGGCCCTTGGCTATGTCGAGATCCCTGTGTG
GCCAAGAAGCTGGTGTGCGGAGATGAAGTCTCGGGCCATGGCTGAAGTGGGGACCATCGTGGACAAA
GTGAAAGAAGTCTCTTCCAGCACAGTGGCTTCCAGCAGAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: Sgfl-MluI



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Plasmid Map:



ACCN: NM_001301103

Insert Size: 390 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).

Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
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_001301103.1](#)

RefSeq Size:	2043 bp
RefSeq ORF:	390 bp
Locus ID:	60490
UniProt ID:	Q96CD2
Cytogenetics:	15q24.2
Protein Pathways:	Metabolic pathways, Pantothenate and CoA biosynthesis
MW:	14 kDa
Gene Summary:	<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 (4) lacks two alternate in-frame exons in the central coding region, compared to variant 1, resulting in an isoform (d) that is shorter than isoform a.</p>