

## Product datasheet for RC236185

### PPCDC (NM\_001301101) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PPCDC (NM\_001301101) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PPCDC  
**Synonyms:** coaC; MDS018; PPC-DC  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RC236185 representing NM\_001301101  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGAACCAAAGGCTCCTGTCCAGCTGCTGCACCCTTGATGGAGAGAAAATCCATGTTCTTGTGGTG  
TCACGGGGAGTGTGCGAGCCCTGAAGTTGCCTCTTCTGGTGTCAAAGCTTTGGACATTCCTGGGCTGGA  
AGTAGCAGTGGTCACAACCTGAGAGAGCCAAACATTCTACAGCCCCAGGACATTCCTGTCACCCTAC  
AGCGACGCTGATGAATGGGAGACCTGCGTCATGCGGGCCTGGGACCGCAGCAAGCCCTGCTCTTCTGCC  
CGGCCATGAACACCGCCATGTGGGAGCACCCGATCACAGCGCAGCAGGTAGACCAGCTCAAGGCCTTTGG  
CTATGTCGAGATCCCCTGTGTGGCCAAGAAGCTGGTGTGCGGAGATGAAGGTCTCGGGCCATGGCTGAA  
GTGGGGACCATCGTGGACAAAGTAAAGAAGTCTCTTCCAGCACAGTGGCTTCCAGCAGAGT

**ACGCGT**ACGCGGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC236185 representing NM\_001301101  
Red=Cloning site Green=Tags(s)

MEPKASCAPAAPLMERKFHVLVGVTSVAALKLPLLVSLLDIPGLEVAVVTTERAKHFYSPQDIPVTLY  
SDADEWETCVMRAWDRSKPLLFPCAMNTAMWEHPITAQQVDQLKAFGYVEIPCVAKKLVCGDEGLGAMAE  
VGTIVDKVKEVLFQHSGFQQS

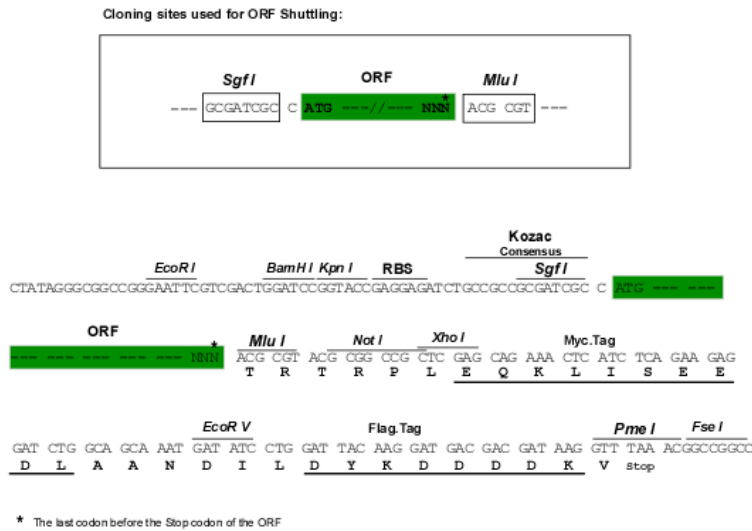
**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

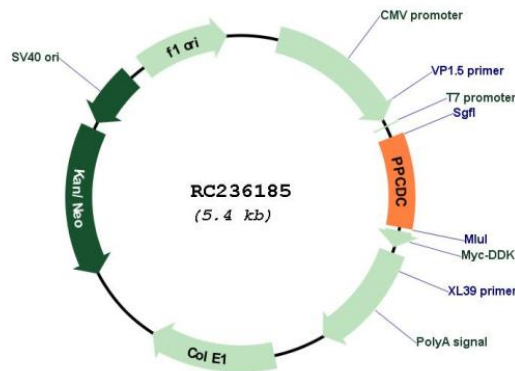


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_001301101

ORF Size: 483 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

<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>NM_001301101.2</u>
<b>RefSeq Size:</b>	2139 bp
<b>RefSeq ORF:</b>	486 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>	18.1 kDa
<b>Gene Summary:</b>	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]