

## Product datasheet for **RG235508**

### PPCDC (NM\_001301105) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PPCDC (NM\_001301105) Human Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** PPCDC  
**Synonyms:** coaC; MDS018; PPC-DC  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >RG235508 representing NM\_001301105.  
Blue=ORF Red=Cloning site Green=Tag(s)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGACTG  
 GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC  
ATGCGGGCCTGGGACCGCAGCAAGCCCCTGCTCTTCTGCCGGCCATGAACACCGCCATGTGGGAGCAC  
CCGATCACAGCGCAGCAGGTAGACCAGCTCAAGGCCTTTGGCTATGTCGAGATCCCCTGTGTGGCCAAG  
AAGCTGGTGTGCGGAGATGAAGTCTCGGGCCATGGCTGAAGTGGGACCATCGTGGACAAAGTAAA  
GAAGTCTCTCCAGCACAGTGGCTTCCAGCAGAGT  
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

**Protein Sequence:** >Peptide sequence encoded by RG235508  
Blue=ORF Red=Cloning site Green=Tag(s)

MRAWDRSKPLLFCPAMNTAMWEHPITAQQVDQLKAFGYVEIPCVAKKLVCGDEGLGAMAEVGTIVDKVK  
EVL FQHSGFQQS  
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
MGYGFYHFGTYPSGYENPFLHAINNGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
SVIFTDKIIRS NATVEHLHPMGDNDLDGSFTRFSLRDGGYSSVVD SHMHFKSAIHP SILQNGGPMFA  
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI



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Cloning Scheme:



ACCN: NM\_001301105

ORF Size: 243 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.

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).

RefSeq: [NM\\_001301105.2](#)

RefSeq Size: 2065 bp

RefSeq ORF: 246 bp

Locus ID: 60490

UniProt ID: [Q96CD2](#)

Cytogenetics: 15q24.2

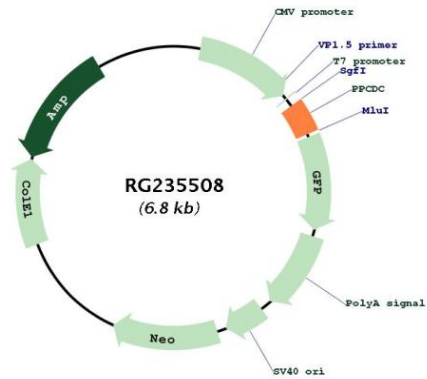
Protein Pathways: Metabolic pathways, Pantothenate and CoA biosynthesis

MW: 9.4 kDa

**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]

**Product images:**



Circular map for RG235508