

## Product datasheet for **RG235507**

### PPCDC (NM\_001301104) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PPCDC (NM\_001301104) 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:** >RG235507 representing NM\_001301104.  
Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGGGCCTGGGACCGCAGCAAGCCCCTGCTCTTCTGCCGGCCATGAACACCGCCATGTGGGAGCAC
CCGATCACAGCGCAGCAGGTAGACCAGCTCAAGGCCTTTGGCTATGTCGAGATCCCCTGTGTGGCCAAG
AAGCTGGTGTGCGGAGATGAAGTCTCGGGCCATGGCTGAAGTGGGACCATCGTGGACAAAGTGAAA
GAAGTCTCTTCCAGCACAGTGGCTTCCAGCAGAGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

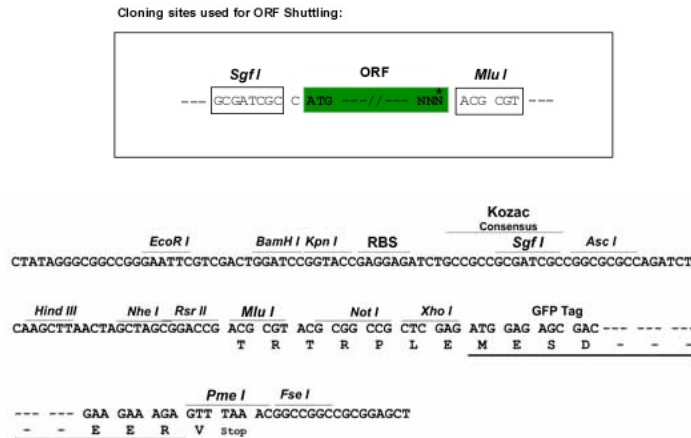
**Protein Sequence:** >Peptide sequence encoded by RG235507  
Blue=ORF Red=Cloning site Green=Tag(s)

```
MRAWDRSKPLLFPCAMNTAMWEHPITAQQVDQLKAFGYVEIPCVAKKLVCGDEGLGAMAEVGTIVDKVK
EVLFGHSGFQQS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

**Restriction Sites:** SgfI-MluI



Cloning Scheme:



ACCN: NM\_001301104

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\\_001301104.2](#)

RefSeq Size: 2161 bp

RefSeq ORF: 246 bp

Locus ID: 60490

UniProt ID: [Q96CD2](#)

Cytogenetics: 15q24.2

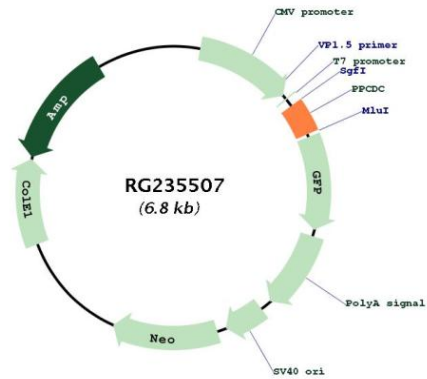
Protein Pathways: Metabolic pathways, Pantothenate and CoA biosynthesis

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 RG235507