

Product datasheet for **RG236185**

PPCDC (NM_001301101) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PPCDC (NM_001301101) 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: >RG236185 representing NM_001301101.
Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAACCAAAGGCTCCTGTCCAGCTGCTGCACCCCTTGATGGAGAGAAAATCCATGTTCTTGTGGGT
GTCACGGGGAGTGTGCGACCCCTGAAGTTGCCTCTTCTGGTGTCAAAGCTTTTGGACATTCCTGGGCTG
GAAGTAGCAGTGGTCACAACAGAGAGCCAAACATTTCTACAGCCCCAGGACATTCTGTACCCCTC
TACAGCGACGCTGATGAATGGGAGACCTGCGTCATGCGGGCTGGGACCGCAGCAAGCCCTGCTCTTC
TGCCCGGCCATGAACACCGCCATGTGGGAGCACCCGATCACAGCGCAGCAGGTAGACCAGCTCAAGGCC
TTTGGCTATGTCGAGATCCCCTGTGTGGCAAGAAGCTGGTGTGCGGAGATGAAGTCTCGGGCCATG
GCTGAAGTGGGGACCATCGTGGACAAAGTAAAAGAAGTCTCTTCCAGCACAGTGGCTTCCAGCAGAGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG236185
Blue=ORF Red=Cloning site Green=Tag(s)

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MEPKASCFAAAPLMERKFHVLVGVTSVAALKLPLLVSKLLDIPGLEVAVVTTERAKHFYSPQDIPVTL
YSDADEWETCVMRADRSKPLLFCPAMNTAMWEHPITAQQVDQLKAFGYVEIPCAKLVCGDEGLGAM
AEVGTIVDKVKEVLFQHSFGQQS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPYSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSSHMFKSAIHPISILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
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Restriction Sites: SgfI-MluI



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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_001301101.2
RefSeq Size:	2139 bp
RefSeq ORF:	486 bp
Locus ID:	60490
UniProt ID:	Q96CD2
Cytogenetics:	15q24.2
Protein Pathways:	Metabolic pathways, Pantothenate and CoA biosynthesis
MW:	18.1 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]