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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)

GCTCGTTTAGTGAACCGTCAGAATTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGCGGGCCTGGGACCGCAGCAAGCCCCTGCTCTTCTGCCCGGCCATGAACACCGCCATGTGGGAGCAC
CCGATCACAGCGCAGCAGGTAGACCAGCTCAAGGCCTTTGGCTATGTCGAGATCCCCTGTGTGGCCAAG
AAGCTGGTGTGCGGAGATGAAGGTCTCGGGGCCATGGCTGAAGTGGGGACCATCGTGGACAAAGTGAAA
GAAGTCCTCTTCCAGCACAGTGGCTTCCAGCAGAGT
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC

Protein Sequence:

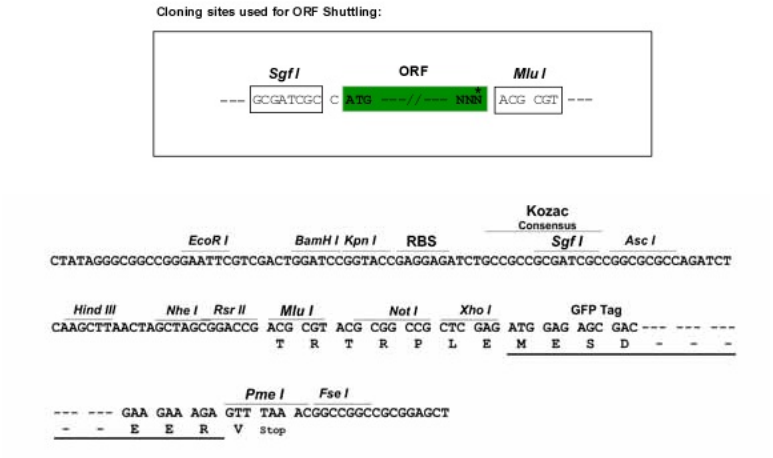
>Peptide sequence encoded by RG235507
Blue=ORF Red=Cloning site Green=Tag(s)

MRAWDRSKPLLFCPAMNTAMWEHPITAQQVDQLKAFGYVEIPCVAKKLVCGDEGLGAMAEVGTIVDKVK
EVLFQHSGFQQS
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYYSSVVDSHMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

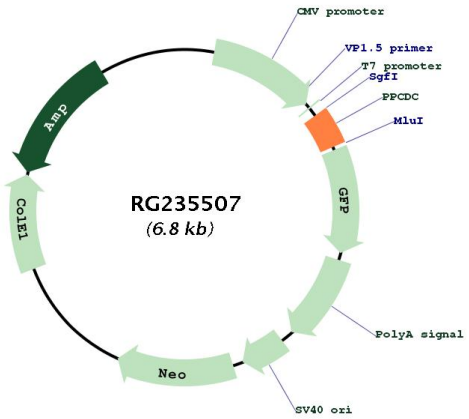
Restriction Sites: SgfI-MluI

View online »

Cloning Scheme:



Plasmid Map:



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]