

Product datasheet for **RC235963**

PPCS (NM_001287510) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PPCS (NM_001287510) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PPCS
Synonyms: CMD2C
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235963 representing NM_001287510
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTTTTACCTGGCTGCGGCTGTGTCAGATTTCTATGTTCTGTCTCTGAAATGCCTGAACACAAGATCC
AGTCATCTGGGGCCCACTGCAGATAACAATGAAGATGGTGCCAAAAGTCTTTCTCTTTGGTTAAAGA
TTGGGCTCCCAAAGCATTATAATTTCTTTAAGTTGGAGACTGACCCCGCCATTGTAATTAATCGAGCT
CGGAAGGCTTTGGAAATTTATCAGCATCAAGTGGTGGTGGCTAATATCCTTGAGTCACGACAGTCCTTTG
TGTTTATTGTAACCAAAGACTCGAAACCAAGTTATTGCTATCAGAGGAAGAAATAGAAAAAGGCGTAGA
GATAGAAGAGAAGATAGTGGATAATCTTCAGTCTCGACACACAGCTTTTATAGGTGACAGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235963 representing NM_001287510
Red=Cloning site Green=Tags(s)
MFYLAADVSDFYVPVSEMPEHKIQSSGGPLQITMKMVPKLLSPLVKDWAPKAFIISFKLETDPAINRA
RKALEIQHQVVANILESRQSFVIVTKDSETKLLLSEEEIEKVEIEEKIVDNLQSRHTAFIGDRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.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.
RefSeq:	<u>NM_001287510.1</u> , <u>NP_001274439.1</u>
RefSeq Size:	2485 bp
RefSeq ORF:	417 bp
Locus ID:	79717
UniProt ID:	<u>Q9HAB8</u>
Cytogenetics:	1p34.2
Protein Pathways:	Metabolic pathways, Pantothenate and CoA biosynthesis
MW:	16.1 kDa
Gene Summary:	Biosynthesis of coenzyme A (CoA) from pantothenic acid (vitamin B5) is an essential universal pathway in prokaryotes and eukaryotes. PPCS (EC 6.3.2.5), one of the last enzymes in this pathway, converts phosphopantothenate to phosphopantothenoylecysteine (Daugherty et al., 2002 [PubMed 11923312]).[supplied by OMIM, Mar 2008]