

Product datasheet for **RC235644**

PPCS (NM_001287507) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PPCS (NM_001287507) 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: >RC235644 representing NM_001287507
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGAAGATGGTGCCAAAACCTGCTTCTCCTTTGGTTAAAGATTGGGCTCCCAAAGCATTATAATTCCT
TTAAGTTGGAGACTGACCCGCCATTGTAATTAATCGAGCTCGGAAGGCTTTGAAATTTATCAGCATCA
AGTGGTGGTGGCTAATATCCTTGAGTCAGCACAGTCCTTTGTGTTTATTGTAACCAAAGACTCGGAAACC
AAGTTATTGCTATCAGAGGAAGAAATAGAAAAGGCGTAGAGATAGAAGAGAAGATAGTGGATAATCTTC
AGTCTCGACACACAGCTTTTATAGGTGACAGAAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235644 representing NM_001287507
Red=Cloning site Green=Tags(s)

MKMVPKLLSPLVKDWAPKAFIISFKLETDPAIVINRARKALEIYQHVVVANILESRSQSFVIVTKDSET
KLLLSEEEIEKGVEIEEKIVDNLQSRHTAFIGDRN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

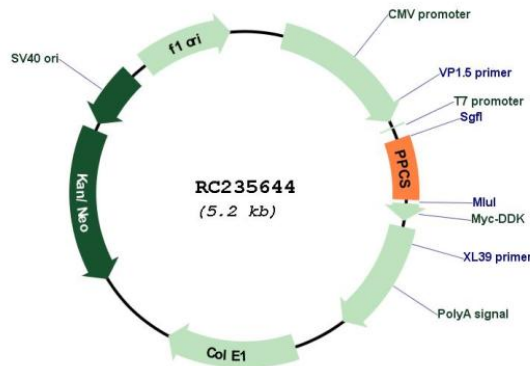


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001287507

ORF Size: 315 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).
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_001287507.1</u> , <u>NP_001274436.1</u>
RefSeq Size:	2108 bp
RefSeq ORF:	318 bp
Locus ID:	79717
Cytogenetics:	1p34.2
Protein Pathways:	Metabolic pathways, Pantothenate and CoA biosynthesis
MW:	12.5 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]