

Product datasheet for SC333538

PPCS (NM_001287507) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPCS (NM_001287507) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPCS
Synonyms:	CMD2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC333538 representing NM_001287507. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGAAGATGGTGCCAAAACCTGCTTTCTCCTTTGGTTAAAGATTGGGCTCCCAAAGCATTTATAATTTCC
TTTAAGTTGGAGACTGACCCCGCATTGTAATTAATCGAGCTCGGAAGGCTTTGGAAATTTATCAGCAT
CAAGTGGTGGTGGCTAATATCCTTGAGTCACGACAGTCCTTTGTGTTTATTGTAACCAAAGACTCGGAA
ACCAAGTTATTGCTATCAGAGGAAGAAATAGAAAAAGGCGTAGAGATAGAAGAGAAGATAGTGGATAAT
CTTCAGTCTCGACACACAGCTTTTATAGGTGACAGAAAC TGA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites:	Sgfl-Mlul
ACCN:	NM_001287507
Insert Size:	318 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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).



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Reconstitution Method:

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: [NM_001287507.1](#)

RefSeq Size: 2108 bp

RefSeq ORF: 318 bp

Locus ID: 79717

Cytogenetics: 1p34.2

Protein Pathways: Metabolic pathways, Pantothenate and CoA biosynthesis

MW: 12 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]

Transcript Variant: This variant (4) uses an alternate first exon and an alternate splice junction at the 3' end of the second exon compared to variant 1. The resulting isoform (c) is shorter at the N-terminus compared to isoform a. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.