

Product datasheet for SC322766

PPCS (NM_001077447) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPCS (NM_001077447) Human Untagged Clone
Tag:	Tag Free
Symbol:	PPCS
Synonyms:	CMD2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for SC322766
GGCGCCGGCCGCTGCGCTGCAGATGGCGAAATGGATCCGGTAGCCGAGTCCCCAGCC
TCCCGGTGCTGCGCGCTGGGCTGAGGTTATGGCTCGCTTCGCGGCCAGGCTGGGCGCGCA
GGGCGCGCGGGTGGTGTGGTTACGTACAGCGCGCACCAAGGTCCCACTGGAAGCGCGGCC
GGTGCCTTCTGGACAACCTCAGCAGCGGGCGCGCGGTGCAACCTCGGCCGAGGCCTT
CCTAGCCGCCGGCTACGGGGTCTGTTCTTGTATCGCGCTCGCTTGCCTTCCCCTATGC
CCACCGCTTCCCACCCAGACTTGGCTGTCCGCTCTGCGGCCTTCGGGCCAGCCCTTTC
GGGCTTGTGAGCCTGGAGGCCGAGGAGAATGCACTTCCGGGTTTTGCTGAGGCTCTGAG
GAGCTACCAGGAGGCTGCGGCTGCAGGCACCTTCTGGCAGTAGAGTTCACCACTTTGGC
GGACTATTTGCATCTGTTGCAGGCTGCGGCCAGGCACTCAATCCGCTAGGCCCTTCTGC
GATGTTTTACCTGGCTGCGGCTGTGTGAGATTTCTATGTTCTGTCTCTGAAATGCCTGA
ACACAAGATCCAGTCATCTGGGGGCCACTGCAGATAACAATGAAGATGGTGCCAAAAC
GCTTCTCCTTTGGTTAAAGATTGGGCTCCCAAAGCATTATAATTTCTTTAAGTTGGA
GACTGACCCCGCATTGTAATTAATCGAGCTCGGAAGGCTTTGGAAATTTATCAGCATCA
AGTGGTGGTGGCTAATATCCTTGAGTCACGACAGTCCCTTTGTGTTTATTGTAACCAAAGA
CTCGGAAACCAAGTTATTGCTATCAGAGGAAGAAATAGAAAAAGGCGTAGAGATAGAAGA
GAAGATAGTGGATAATCTTCAGTCTCGACACACAGCTTTTATAGGTGACAGAACTGAAG
TAAAAAGCCCTTATAGGATCAAAAATTGTTTCAGGGCTCTTAGAGATGGTAAAACTACAA
AAAAAACCATGGCTTTCATATGGACAGAGAAAAATGAAAGAAAGGAAAAGGCAGTGGTGT
GTAGGCAAAATATGGTTTGGCATTGTCTTTAATGACACCTGATATGATGTCATTTTGT
TTTGAAATTGAACACTAGAACTGTTAATCACCTTTAAAAAGAAGAGCTTATTGGGAATTA
TATATTCCTTAAAATATACATGGGGCCTGAATGTGAGCCATCTTTATACTATAGAAAAA
GGATTATGGATGCATGAATGGTCATGCTTTGGAGATCAAATATTGGTTGAATGCCTATGT
ATGTCAGGCCCTGTGCTGAGCCATGAGGATTAAGATGAATAAACATATCTTGTTTAG
GAAATGGATGTATAAAAAAATCAAGTGAATAAAGTGTGTGCCAAAAGCTGACACAATG
GAAAGGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA



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Restriction Sites:	Please inquire
ACCN:	NM_001077447
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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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_001077447.1</u> , <u>NP_001070915.1</u>
RefSeq Size:	1044 bp
RefSeq ORF:	417 bp
Locus ID:	79717
UniProt ID:	<u>Q9HAB8</u>
Cytogenetics:	1p34.2
Protein Pathways:	Metabolic pathways, Pantothenate and CoA biosynthesis
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (2) uses an alternate splice junction at the 3' end of the first exon compared to variant 1. The resulting isoform (b) is shorter at the N-terminus compared to isoform a. Variants 2, 3, 5, 6, and 7 all encode the same isoform (b). 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.</p>