

Product datasheet for **RG210740**

PPCS (NM_001077447) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPCS (NM_001077447) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PPCS
Synonyms:	CMD2C
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG210740 representing NM_001077447 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGAAATGGATCCGGTAGCCGAGTCCCCCAGCCTCCCGGTGCTGCGCGCTGGGCTGAGGTTATGG
CTCGCTTCGCGGCCAGGCTGGGCGCGCAGGCGCGGGTGGTGTGGTTACGTCAGGCGGCACCAAGGT
CCCACTGGAAGCGCGCCGGTGCCTTCTGGACAACCTCAGCAGCGGGCGCGGTGCAACCTCGGCC
GAGGCCTTCTAGCCCGGCTACGGGGTCTGTTCTTGTATCGCGCTCGCTCTGCCTTCCCTATGCC
ACCGCTTCCCACCCAGACTTGGCTGTCCGCTCTGCGGCCTTCGGGCCAGCCCTTCGGCTTGTGAG
CCTGGAGCCGAGGAGAATGCACTTCCGGTTTTGCTGAGGCTCTGAGGAGCTACCAGGAGCTGCGGCT
GCAGGCACCTTCTGGCAGTAGAGTTCACCACTTTGGCGACTATTTGCATCTGTTGCAGCTGCGGCC
AGGCACTCAATCCGCTAGGCCCTTCTGCGATGTTTTACCTGGCTGCGGCTGTGTCAGATTCTATGTTCC
TGTCTCTGAAATGCCTGAACACAAGATCCAGTCATCTGGGGGCCACTGCAGATAACAATGAAGATGGTG
CCAAAAGTGTCTTCTCTTTGGTTAAAGATTGGGCTCCCAAAGCATTTATAATTTCTTTAAGTTGGAGA
CTGACCCCGCCATTGTAATTAATCGAGCTCGGAAGGCTTTGGAATTTATCAGCATCAAGTGGTGGTGGC
TAATATCCTTGAGTCACGACAGTCTTTGTGTTATTGTAACCAAAGACTCGGAAACCAAGTTATTGCTA
TCAGAGGAAGAAATAGAAAAGCGTAGAGATAGAAGAGAAGATAGTGGATAATCTTCAGTCTCGACACA
CAGCTTTTATAGGTGACAGAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG210740 representing NM_001077447
Red=Cloning site Green=Tags(s)

MAEMDPVAEFPQPPGAARWAEVMARFAARLGAQGRRVLVTSGGKTVPLEARPVRFLLDNFSSGRRGATSA
 EAFLAAGYGVFLYRARSAPFYAHRFPQTWLSALRPSGPALSGLLSLEAEENALPGFAEALRSYQEA
 AGTFLAVEFTLLADYLHLLQAAAQALNPLGPSAMFYLA
 AAASDFYVPVSEMP
 EHKIQSSGGPLQITMKMV
 PKLLSPLVKDWAPKAFIISFKLETDP
 AIVINRARKALEIYQHVVVANILESRQSFVFI
 VTKDSETKLLL
 SEEEIEKGV
 IEKIVDNLQSRHTAFIGDRN

TRTRPLE - GFP Tag - V

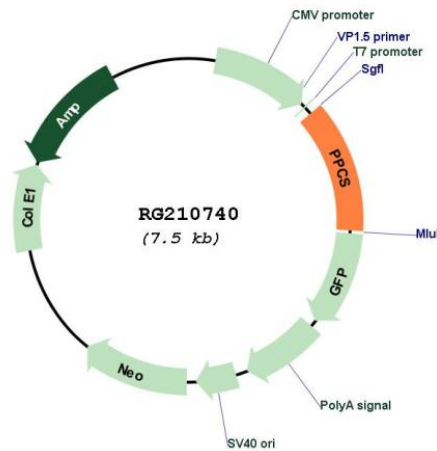
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001077447

ORF Size: 414 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:	NM_001077447.1 , NP_001070915.1
RefSeq Size:	1044 bp
RefSeq ORF:	417 bp
Locus ID:	79717
UniProt ID:	Q9HAB8
Cytogenetics:	1p34.2
Protein Pathways:	Metabolic pathways, Pantothenate and CoA biosynthesis
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 phosphopantothenoylcysteine (Daugherty et al., 2002 [PubMed 11923312]).[supplied by OMIM, Mar 2008]