

Product datasheet for **RG235962**

PPCS (NM_001287509) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PPCS (NM_001287509) 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:	>RG235962 representing NM_001287509. Blue=ORF Red=Cloning site Green=Tag(s)

```
GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGTTTTACCTGGCTGCGGCTGTGTCTAGATTTCTATGTTCTGTCTCTGAAATGCCTGAACACAAGATC
CAGTCATCTGGGGGCCCACTGCAGATAACAATGAAGATGGTGCCAAAAGTCTTTCTCCTTTGGTTAAA
GATTGGGCTCCCAAAGCATTTATAATTTCTTTAAGTTGGAGACTGACCCCGCCATTGTAATTAATCGA
GCTCGGAAGGCTTTGAAATTTATCAGCATCAAGTGGTGGTAAATATCCTTGAGTCACGACAGTCC
TTTGTGTTTATTGTAACCAAAGACTCGGAAACCAAGTTATTGCTATCAGAGGAAGAAATAGAAAAAGGC
GTAGAGATAGAAGAGAAGATAGTGGATAATCTTCAGTCTCGACACACAGCTTTTATAGGTGACAGAAAC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```

Protein Sequence: >Peptide sequence encoded by RG235962
Blue=ORF Red=Cloning site Green=Tag(s)

```
MFYLAADVDFYVPVSEMPEHKIQSSGGPLQITMKMVPKLLSPLVKDWAPKAFIISFKLETDPAIVINR
ARKALEIYQHVVANILESRQSFVIVTKDSETKLLLSEEEIEKVEIEEKIVDNLQSRHTAFIGDRN
TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV
MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED
SVIFTDKIIRSNAIVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSMHFKSAIHPSILQNGGPMFA
FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV
```

Restriction Sites: Sgfl-Mlul

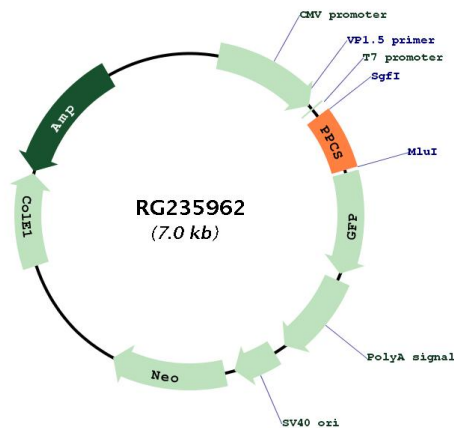


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001287509

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).
RefSeq:	NM_001287509.1 , NP_001274438.1
RefSeq Size:	1822 bp
RefSeq ORF:	417 bp
Locus ID:	79717
UniProt ID:	Q9HAB8
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]