

## Product datasheet for **RG237367**

### PCYT2 (NM\_001282203) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | PCYT2 (NM_001282203) Human Tagged ORF Clone                                    |
| Tag:                      | TurboGFP   |
| Symbol:                   | PCYT2  |
| Synonyms:                 | ET; SPG82  |
| Mammalian Cell Selection: | Neomycin   |
| Vector:                   | pCMV6-AC-GFP (PS100010)  |
| E. coli Selection:        | Ampicillin (100 ug/mL)   |
| ORF Nucleotide Sequence:  | >RG237367 representing NM_001282203.<br>Blue=ORF Red=Cloning site Green=Tag(s) |

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGGTGCAGGCCATCAAATGGGTGGACGAGGTGGTGCCAGCGGCTCCCTACGTCACTACACTAGAGACC
CTGGACAAATACTAAGTGTGACTTCTGTGTTACAGGCAATGACATCACCTGACTGTAGATGGCCGGGAC
ACCTATGAGGAAGTAAAGCAGGCTGGGAGGTACAGAGAATGCAAGCGCACGCAAGGGGTGCCACCACA
GACCTCGTGGGCCGCATGCTGCTGGTAACCAAAGCCCATCACAGCAGCCAGGAGATGTCCTCTGAGTAC
CGGGAGTATGCAGACAGTTTTGGCAAGTGCCCTGGTGGGCGGAACCCCTGGACCGGGGTATCCCAGTTC
CTGCAGACATCTCAGAAGATCATCCAGTTTGTCTTGGGAAGGAGCCCCAGCCAGGGGAGACAGTCATC
TATGTGGCTGGTGCCTTCGACCTGTTCCACATCGGGCATGTGGACTTCTGGAGAAGGTGCACAGGCTG
GCAGAGAGGCCCTACATCATCGCGGGCTTACACTTTGACCAGGAGGTCAATCACTACAAGGGGAAGAAC
TACCCCATCATGAATCTGCATGAACGGACTCTGAGCGTGTGGCCTGCCGGTACGTGCAGAAGTGGTG
ATTGGAGCCCCGTACGCGGTACAGCAGAGCTCCTAAGTCACTTCAAGGTGGACCTGGTGTGCACGGC
AAGACAGAAATATCCCTGACAGGGATGGCTCCGACCCATACCAGGAGCCCAAGAGAAGGGGCATCTTC
CGTCAGATTGACAGTGGCAGCAACCTCACCACAGACCTCATCGTCCAGCGGATCATCACCAACAGGTTG
GAGTATGAGGCGGAAACCAGAAGAAGGAAGCCAAAGGAGCTGGCCTTCTGGAGGCTGCCAGGCAGCAG
GCGGCACAGCCCTGGGGGAGCGGATGGTGACTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237367  
 Blue=ORF Red=Cloning site Green=Tag(s)

MVQAIKWVDEVVPAAPYVTTLETLDKYNCDFVHGNDITLTVDGRDYEYEVKQAGRYRECKRTQGVSTT  
 DLVGRMLLVTKAHHSSQEMSSEYREYADSFYKCPGGRNPWTGVSQFLQTSQKIIQFASGKEPQPGETVI  
 YVAGAFDLFHIGHVDFLEKVRHLAERPYYIAGLHFDQEVNHYKGNYPIMNLHERTLSVLACRYVSEVV  
 IGAPYAVTAELLSHFKVDLVCHGKTEIIPDRDGSDDPYQEPKRRGIFRQIDSGSNLTTDLIVQRIITNRL  
 EYEARNQKKEAKELAFLEAARQQAQPLGERDGDFF  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPYSGYENPFLHAINNGGYTNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEV  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282203

**ORF Size:** 933 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\\_001282203.2](#)

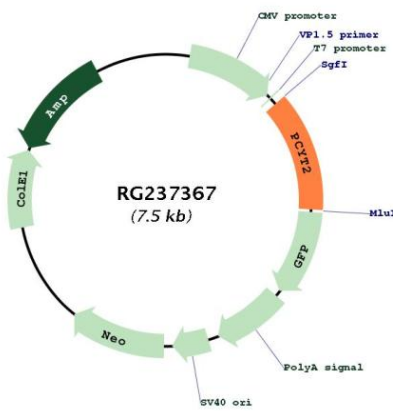
**RefSeq Size:** 3653 bp

**RefSeq ORF:** 936 bp

Locus ID: 5833  
 UniProt ID: [Q99447](#)  
 Cytogenetics: 17q25.3  
 Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways  
 MW: 35.6 kDa

**Gene Summary:** This gene encodes an enzyme that catalyzes the formation of CDP-ethanolamine from CTP and phosphoethanolamine in the Kennedy pathway of phospholipid synthesis. Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2010]

**Product images:**



Circular map for RG237367