

## Product datasheet for **RG237528**

### PCYT2 (NM\_001256433) Human Tagged ORF Clone

#### Product data:

|                           |  |
|---------------------------|--|
| Product Type:             | Expression Plasmids  |
| Product Name:             | PCYT2 (NM_001256433) 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:  | >RG237528 representing NM_001256433.<br>Blue=ORF Red=Cloning site Green=Tag(s) |

```
GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC GCGATCGCC
ATGATCCGGAACGGGCGCGGGGCTGCAGGCGGCGCAGAGCAGCCGGGCCGGGGGCAGGCGCGCCGTG
AGGGTGTGGTGCGATGGCTGCTATGACATGGTGCATTACGGCCACTCCAACCAGCTGCGCCAGGCACGG
GCCATGGGTGACTACCTCATCGTAGGCGTGCACACCGATGATGACATCACCTGACTGTAGATGGCCGG
GACACCTATGAGGAAGTAAAGCAGGCTGGGAGGTACAGAGAATGCAAGCGCACGCAAGGGGTGTCCACC
ACAGACCTCGTGGCCGCATGCTGCTGGTAACCAAAGCCCATCACAGCAGCCAGGAGATGTCCTCTGAG
TACCGGGAGTATGCAGACAGTTTTGGCAAGTGCCTGGTGGGCGGAACCCCTGGACCGGGGTATCCCAG
TTCTGCAGACATCTCAGAAGATCATCCAGTTTGCTTCTGGGAAGGAGCCCCAGCCAGGGGAGACAGTC
ATCTATGTGGCTGGTGCCTTCGACCTGTTCCACATCGGGCATGTGGACTTCTGGAGAAGGTGCACAGG
CTGGCAGAGAGGCCCTACATCATCGCGGGCTTACACTTTGACCAGGAGGTCAATCACTACAAGGGGAAG
AACTACCCCATCATGAATCTGCATGAACGGACTCTGAGCGTGCTGGCCTGCCGGTACGTGTCAGAAGTG
GTGATTGGAGCCCCGTACGCGGTACAGCAGAGCTCCTAAGTCACTTCAAGGTGGACCTGGTGTGTAC
GGCAAGACAGAAATTATCCCTGACAGGGATGGCTCCGACCCATACCAGGAGCCCAAGAGAAGGGGCATC
TTCCGTGAGATTGACAGTGGCAGCAACCTCACCACAGACCTCATCGTCCAGCGGATCATACCAACAGG
TTGGAGTATGAGGCGCGAAACCAGAAGAAGGAAGCCAAGGAGCTGGCCTTCTGGAGGCTGCCAGGCAG
CAGGCGGCACAGCCCCTGGGGGAGCGCGATGGTACTTC
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG237528  
 Blue=ORF Red=Cloning site Green=Tag(s)

MIRNGRGAAGGAEQPGPGRRRAVRVWCDGCDYDMVHYGHSNQLRQARAMGDYLIVGVHTDDDITLTVDGR  
 DTYEYEVKQAGRYRECKRTQGVSTDLVGRMLLVTKAHSSQEMSSEYREYADSFQKCPGGRNPWTGVSQ  
 FLQTSQKIIQFASGKEPQGETVIYVAGAFDLFHIGHVDFLEKVHRLAERPYYIIAGLHFDQEVNHYK GK  
 NYPIMNLHERTLSVLACRYVSEVVI GAPYAVTAELL SHFKVDL VCHGKTEIIPDRDGSDPYQEPKRRGI  
 FRQIDSGSNLTTDLIVQRIITNRLEYEARNQKKEAKELAFLEAARQQAQPLGERDGF  
**TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGGEGTPEQGRMTNKMKSTKGALTFSPYLLSHV**  
 MGYGFYHFGTYPSTYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPEP  
 SVIFTDKIIIRSNAVTEHLHPMGDNDLDGSFTRTFSLRDGGYSSVVD SHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001256433

**ORF Size:** 1005 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).

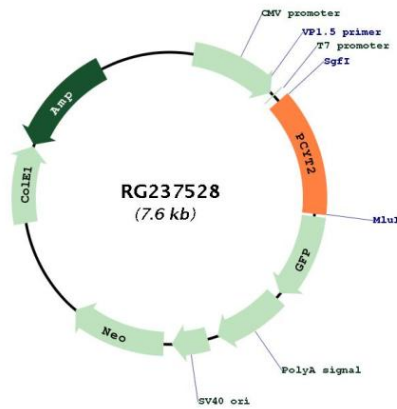
**RefSeq:** [NM\\_001256433.3](#)

**RefSeq Size:** 3079 bp

**RefSeq ORF:** 1008 bp

**Locus ID:** 5833  
**Cytogenetics:** 17q25.3  
**Protein Pathways:** Glycerophospholipid metabolism, Metabolic pathways  
**MW:** 38.1 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 RG237528