

## Product datasheet for **RC233717**

### PCYT2 (NM\_001256435) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** PCYT2 (NM\_001256435) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** PCYT2  
**Synonyms:** ET; SPG82  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233717 representing NM\_001256435  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGTGCAGGCCATCAAATGGGTGGACGAGGTGGTGCCAGCGGCTCCCTACGTCACTACACTAGAGACCC  
TGGACAAATACTGTGACTTCTGTGTTACGGCAATGACATCACCTGACTGTAGATGGCCGGGACAC  
CTATGAGGAAGTAAAGCAGGCTGGGAGGTACAGAGAATGCAAGCGCACGCAAGGGGTGCCACCACAGAC  
CTCGTGGCCGCATGCTGCTGGTAACCAAAGCCATCACAGCAGCCAGGAGATGTCCTCTGAGTACCGGG  
AGTATGCAGACAGTTTTGGCAAGTGCCCTGGTGGCGGAACCCCTGGACCGGGGTATCCAGTTCCTGCA  
GACATCTCAGAAGATCATCCAGTTTGCTTCTGGGAAGGAGCCCCAGCCAGGGGAGACAGTATCTATGTG  
GCTGGTGCCTTCGACCTGTTCCACATCGGGCATGTGGACTTCTGGAGAAGGTGCACAGGCTGGCAGAGA  
GGCCCTACATCATCGCGGCTTACACTTTGACCAGGAGGTCAATCACTACAAGGGGAAGAATAACCCAT  
CATGAATCTGCATGAACGGACTCTGAGCGTGCTGGCCTGCCGGTACGTGTGAGAGTGGTATTGGAGCC  
CCGTACCGGTCACAGCAGAGCTCCTAAGTCACTTCAAGTGGACCTGGTGTGTACAGGCAAGACAGAAA  
TTATCCCTGACAGGGATGGCTCCGACCCATACCAGGAGCCAAGAGAAGGGGCATCTTCCGTCAGATTGA  
CAGTGGCAGCAACCTCACCACAGACCTCATCGTCCAGCGGATCATACCAACAGGTTGGAGTATGAGCGC  
CGAAACCAGAAGAAGGAAGCAAGGAGCTGGCCTTCTGGAGGCTGCCAGGCAGCAGGCGGCACAGCCCC  
TGGGGGAGCGCGATGGTACTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC233717 representing NM\_001256435  
Red=Cloning site Green=Tags(s)

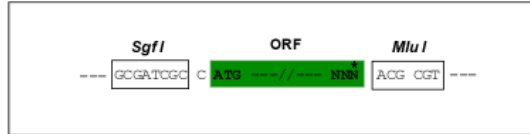
MVQAIKWDEVVPAAPYVTTLETLDKYNCDFCVHGNDITLTVDGRDYEYEVKQAGRYRECKRTQGVSTTD  
 LVGRMLLVTKAHSSQEMSSEYREYADSF GKCPGGRNPWTGVSQFLQTSQKIIQFASGKEPQPGETVIYV  
 AGAFDLFHIGHVDFLEKVHRLAERPYYIIAGLHFDQEVNHYKGNYPIMNLHERTLSVLACRYVSEVVIGA  
 PYAVTAELLSHFKVDLVCHGKTEIIPDRDGSDPYQEPKRRGIFRQIDSGSNLTTDLIVQRIITNRLEYEA  
 RNQKKEAKELAFLEAARQQAAQPLGERDGF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001256435

**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).

**Reconstitution Method:**

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\\_001256435.3](#)

**RefSeq Size:** 3525 bp

**RefSeq ORF:** 936 bp

**Locus ID:** 5833

**UniProt ID:** [Q99447](#)

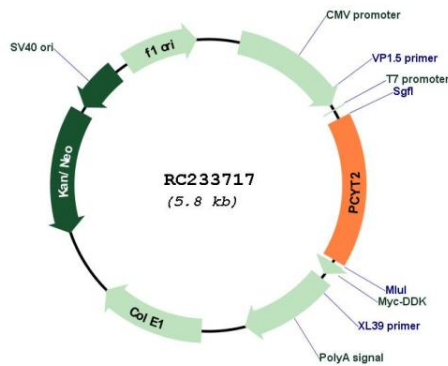
**Cytogenetics:** 17q25.3

**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 RC233717