

## Product datasheet for **SC118379**

### PCYT2 (NM\_002861) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCYT2 (NM_002861) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCYT2
Synonyms:	ET; SPG82
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None
Fully Sequenced ORF:	>NCBI ORF sequence for NM_002861, the custom clone sequence may differ by one or more nucleotides

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ATGATCCGGAACGGGCGCGGGGCTGCAGGCGGCGCAGAGCAGCCGGGCCCGGGGGCAGGCGGCCGTGA
GGGTGTGGTGGCGATGGCTGCTATGACATGGTGCATTACGGCCACTCCAACCAGCTGCGCCAGGCACGGGC
CATGGGTGACTACCTCATCGTAGGCGTGCACACCGATGAGGAGATCGCCAAGCACAAGGGGCCCGGGT
TTCACCTCAGGAGGAGAGATACAAGATGGTGCAGGCCATCAAATGGGTGGACGAGGTGGTCCAGCGGCTC
CCTACGTCACACTAGAGACCCTGGACAAATACTGTGACTTCTGTGTTACAGGCAATGACATCAC
CCTGACTGTAGATGGCCGGGACACCTATGAGGAAGTAAAGCAGGCTGGGAGGTACAGAGAATGCAAGCGC
ACGCAAGGGGTGTCCACCACAGACCTCGTGGGCCGATGCTGCTGGTAACCAAAGCCCATCACAGCAGCC
AGGAGATGTCCTCTGAGTACCGGGAGTATGCAGACAGTTTTGGCAAGTGCCTGGTGGGCGGAACCCCTG
GACCGGGGTATCCCAGTTCCTGCAGACATCTCAGAAGATCATCCAGTTTCTTCTGGGAAGGAGCCCCAG
CCAGGGGAGACAGTCATCTATGTGGTGGTGCCTTCGACCTGTTCCACATCGGGCATGTGGACTTCTCTGG
AGAAGGTGCACAGGCTGGCAGAGAGGCCCTACATCATCGCGGGCTTACACTTTGACCAGGAGGTCAATCA
CTACAAGGGGAAGAACTACCCCATCATGAATCTGCATGAACGGACTCTGAGCGTGCTGCCCTGCCGGTAC
GTGTGAGAAGTGGTGATTGGAGCCCCGTACGCGGTCCAGCAGAGCTCTAAGTCACTTCAAGGTGGACC
TGGTGTGTCACGGCAAGACAGAAATTATCCCTGACAGGGATGGCTCCGACCCATACCAGGAGCCCAAGAG
AAGGGGCATCTTCCGTGACATTGACAGTGGCAGCAACCTCACCACAGACCTCATCGTCCAGCGGATCATC
ACCAACAGGTTGGAGTATGAGGCGCAAACAGAAAGGAAGCAAGGAGCTGGCCTTCTGGAGGCTG
CCAGGCAGCAGGCGGCACAGCCCTGGGGGAGCGCGATGGTGACTTCTAA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_002861 unedited  
 TTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGGAGCTGCCAGGCT  
 GTCCGCGCCGCGCTGCGGGGCCATGATCCGGAACGGGCGCGGGCTGCAGGCGGCGCAG  
 AGCAGCCGGGCCCCGGGGGCGAGGCGCCGTGAGGGTGTGGTGCATGGCTGCTATGACA  
 TGGTGCATTACGGCCACTCCAACCAGCTGCGCCAGGCACGGGCCATGGGTGACTACCTCA  
 TCGTAGGCGTGACACCCGATGAGGAGATCGCCAAGCACAAGGGGGCCCCGGTGTCTCACT  
 AGGAGGAGAGATACAAGATGGTGCAGGCCATCAAATGGGTGGACGAGGTGGTGCCAGCGG  
 CTCCCTACGTCACTAAGACTAGAGACCCTGGACAATACTGACTTCTGTGTTCCAG  
 GCAATGACATCACCTGACTGTAGATGGCCGGACACCTATGAGGAAGTAAAGCAGGCTG  
 GGAGGTACAGAGAATGCAAGCGCACGCAAGGGGTGCCACCACAGACCTCGTGGGCCGCA  
 TGCTGCTGGTAACCAAAGCCATCACAGCAGCCAGGAGATGTCCTCTGAGTACCGGGAGT  
 ATGCAGACAGTTTTGGCAAGTGCCTGGTGGGCGGAACCCCTGGACCGNGTATCCCAGT  
 TCCTGCAGACATCTCAGAAGATCATCCAGTTTGTCTTGGGAAGGAGCCCCAGCCAGGGG  
 AGACAGTCATCTATGTGGCTGGNTGCCTTTCGACCTGTNCACATCGGGCATGTGGACTT  
 CCTGGAGAANGTGACAGCTGGCANNAGAGCCCTACTCNATCGCGNNCTACACTTTGAC  
 CAGGTCACCTGCCTTCTGCTCCCTGGCCCTGGCAAAANTTGATGGCNCCTCCCAGGGCCC  
 TANACCNTGCTTGTAAAGNCCCAGGGC

**3' Read Nucleotide Sequence:**

>OriGene 3' read for NM\_002861 unedited  
 GCCTTCCCAGACGNCTGTTTAGCCCCGCGCAGCACTGCCACCAGGCTTTATTGGTGTG  
 ACCAAANAGATTTCCGTGAGCCATGTACAAACAGAACAGAGTCCATAAGGAGAGTGGCGA  
 AGCTGCCGGGAAGGAAGGCAAGCGTGTTCCTGGAGCCAGGCGCTGGGTGGCAGGACAC  
 CGTGTGGGGGGTGCCAGTGGGAGGTGGTGTGGTCTACACCCAGAGAACTAAAGGGGTG  
 ACCGCAGTCACTGCTCCCTAAAGCCCTGCTCTGCACCTCCCGCCACAGCTGGGTGGG  
 AGTCAGTGTGGCCTCTGTCCAGGTGGTGGGGCATCCGGGACCAGGTGGGGGCGCACGC  
 AGGAGCGGTGCGTTTCAGGCTGCAGGTGCCGTCTGCCGTCTCACTTCCGGCCTCTCCAC  
 TGTGCTGGACACCTCTCTGAGCAGCTTTGCTGGAAGAGCGGAGAGCCTGCTGCAAAC  
 AGGCACCTTGTAGGCAGGCAAGGAGGCAGATCCTCACCAGCCCTCCAGAGCCAGGCCA  
 GTTATAGAGGGCGGTCTGTAGAGTCTATGTCTAAACGCATATTGCGCACCATGACAGAC  
 CAGGGGGAGGGCCGGCTATTGCCTTCTGCCTGTTACAAGTCAACCATCGTGTCCCCCAG  
 GGCTGTGCCCGCCTGTTTGCCTCGCAGCCTTATGAGGCCAGTCTCTGGTTTCTCCTT  
 CTGGTTTCGCGCCTCATACTCCAACCTGTTGGTGCAGTCCGTTTGACGATGATGCTGT  
 GGTGAGGGTGCCTGCACTGTCTGATGGAATATGCCCTTCTCTGGCTTCTTGATGG  
 TGCCGGAGTCTCCCTGTCCGGGAAATTTCTTTTGGCTGTTACCACCCCGCCACTTTCA  
 ATGATTTAGGACCTCTCCGGACCCGCGCGGGTTTCATCCCTCTTTTGGCCTTCCGGC  
 GGTACACGCTACATTCTCTGCCATCTTTTTG

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_002861

**Insert Size:**

2500 bp

**OTI Disclaimer:**

Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_002861.1</a> , <a href="#">NP_002852.1</a>
<b>RefSeq Size:</b>	1856 bp
<b>RefSeq ORF:</b>	1170 bp
<b>Locus ID:</b>	5833
<b>UniProt ID:</b>	<a href="#">Q99447</a>
<b>Cytogenetics:</b>	17q25.3
<b>Domains:</b>	CTP_transf_2
<b>Protein Pathways:</b>	Glycerophospholipid metabolism, Metabolic pathways
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) lacks an alternate in-frame exon in the central coding region, compared to variant 1, resulting in an isoform (2) that is shorter than isoform 1.</p> <p>Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>