

## Product datasheet for SC335581

### PCYT2 (NM\_001282204) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCYT2 (NM_001282204) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCYT2
Synonyms:	ET; SPG82
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335581 representing NM_001282204. Blue=Insert sequence Red=Cloning site Green=Tag(s)

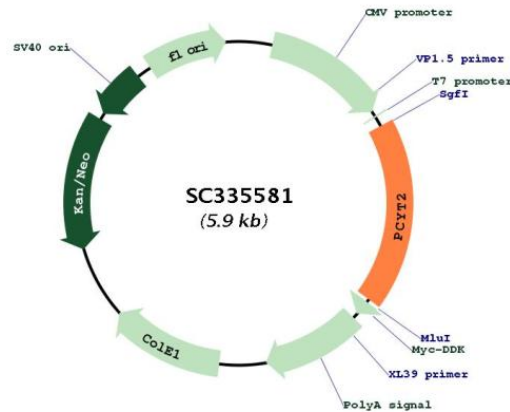
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GCTCGTTTGTAGTGAACCGTCAGAATTTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGTGCATTACGGCCACTCCAACCAGCTGCGCCAGGCACGGGCCATGGGTGACTACCTCATCGTAGGC
GTGCACACCGATGAGGAGATCGCCAAGCACAAGGGGCCCGGTGTTCACTCAGGAGGAGAGATAACAAG
ATGGTGCAGGCCATCAAATGGGTGGACGAGGTGGTCCAGCGGCTCCCTACGTCACTACACTAGAGACC
CTGGACAAATACAACGTGACTTCTGTGTTACCGCAATGACATCACCTGACTGTAGATGGCCGGGAC
ACCTATGAGGAAGTAAAGCAGGCTGGGAGGTACAGAGAATGCAAGCGCACGAAGGGGTGCCACCACA
GACCTCGTGGGCCGATGCTGCTGGTAACCAAAGCCCATCACAGCAGCCAGGAGATGTCCTCTGAGTAC
CGGGAGTATGCAGACAGTTTTGGCAAGTGCCCTGGTGGGCGGAACCCCTGGACCGGGGTATCCCAGTTC
CTGCAGACATCTCAGAAGATCATCCAGTTTGCTTCTGGGAAGGAGCCCCAGCCAGGGGAGACAGTCATC
TATGTGGCTGGTGCCTTCGACCTGTTCCACATCGGGCATGTGGACTTCTGGAGAAGGTGCACAGGCTG
GCAGAGAGGCCCTACATCATCGCGGGCTTACACTTTGACCAGGAGGTCAATCACTACAAGGGGAAGAAC
TACCCCATCATGAATCTGCATGAACGACTCTGAGCGTGTGGCCTGCCGGTACGTGTGAGAAGTGGTG
ATTGGAGCCCCGTACGCGGTCACAGCAGAGCTCCTAAGTCACTTCAAGGTGGACCTGGTGTGTACGGC
AAGACAGAAATATCCCTGACAGGGATGGTCCGACCCATACCAGGAGCCCAAGAGAAGGGGCATCTTC
CGTCAGATTGACAGTGGCAGCAACCTCACCACAGACCTCATCGTCCAGCGGATCATCACCACAGGTTG
GAGTATGAGGCGCGAAACAGAGAAGGAAGCAAGGAGCTGGCCTTCTGGAGGCTGCCAGGCAGCAG
GCGGCACAGCCCCCTGGGGGAGCGGATGGTGACTTCTAA
ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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## Plasmid Map:



ACCN: NM\_001282204

Insert Size: 1074 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).

**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\\_001282204.1](#)

RefSeq Size: 3369 bp

RefSeq ORF: 1074 bp

Locus ID: 5833

UniProt ID: [Q99447](#)

Cytogenetics: 17q25.3

Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways

**MW:** 40.5 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]  
Transcript Variant: This variant (6) differs in the 5' UTR and has many differences in the coding region but maintains the reading frame, compared to variant 1. The encoded isoform (6) is shorter at the N-terminus, compared to isoform 1. 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.