

Product datasheet for **SC320786**

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
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_002861.1
 GCCTGGCGGGGCGGGCGGGCGGCTCGGAGTCGCCGGGAGCTGCCAGGCTGTCCGCGCCG
 CCGCTGCGGGGCCATGATCCGGAACGGGCGGGGCTGCAGGCGGCGCAGAGCAGCCGGG
 CCCGGGGGCGAGGCGGCCGTGAGGGTGTGGTGCATGGCTGCTATGACATGGTGCATTA
 CGGCCACTCCAACCAGCTGCGCCAGGCACGGGCCATGGGTGACTACCTCATCGTAGGCGT
 GCACACCGATGAGGAGATCGCCAAGCACAAGGGGCCCGGTGTTCACTCAGGAGGAGAG
 ATACAAGATGGTGCAGGCCATCAAATGGGTGGACGAGGTGGTCCAGCGGCTCCCTACGT
 CACTACACTAGAGACCCTGGACAAATACAACCTGTGACTTCTGTGTTACGGCAATGACAT
 CACCCTGACTGTAGATGGCCGGGACACCTATGAGGAAAGTAAAGCAGGCTGGGAGGTACAG
 AGAATGCAAGCGCACGCAAGGGGTGTCCACCACAGACCTCGTGGGCCGATGCTGCTGGT
 AACCAAAGCCCATCACAGCAGCCAGGAGATGTCCTCTGAGTACCGGGAGTATGCAGACAG
 TTTTGGCAAGTGCCTGGTGGGCGGAACCCCTGGACCGGGGTATCCAGTTCCTGCAGAC
 ATCTCAGAAGATCATCCAGTTTGTCTTGGGAAGGAGCCCCAGCCAGGGGAGACAGTCAT
 CTATGTGGCTGGTGCCTTCGACCTGTTCCACATCGGGCATGTGGACTTCCTGGAGAAGGT
 GCACAGGCTGGCAGAGAGCCCCACATCATCGCGGGCTTACACTTTGACCAGGAGGTCAA
 TCACTACAAGGGGAAGAACTACCCCATCATGAATCTGCATGAACGGACTCTGAGCGTGCT
 GGCTGCCGGTACGTGTGAGAAGTGGTATTGGAGCCCCGTACGCGGTACAGCAGAGCT
 CCTAAGTCACTTCAAGGTGGACCTGGTGTGTACGGCAAGACAGAAATTATCCCTGACAG
 GGATGGCTCCGACCCATACCAGGAGCCCAAGAGAAGGGGCATCTTCCGTGAGATTGACAG
 TGGCAGCAACCTCACCACAGACCTCATCGTCCAGCGGATCATCACCACAGGTTGGAGTA
 TGAGGCGGCAACCCAGAGAAGGAAGCAAGGAGCTGGCCTTCTGGAGGCTGCCAGGCA
 GCAGGCGGCACAGCCCTGGGGGAGCGCATGGTGACTTCTAACCTGGCAGAGGCCCTGG
 CCGCCCTCTCTAACTGGCTGGCTCTGGAAGGGCTGGTGGAGACTCTGCCTCCTTGCCTG
 CCTACAAGGTGCCTGGTTTGCAGCAGGCTCTCCGCTCTTCCAGCAAAGCTGCTCAGAGA
 GGGTGTCCAGCACAGTGGAGAGGCGGAAAGTGGAGCGGCGAGCGGCACCTGCAGCCTGA
 AACGCACCGTCTGCGTGCGCCCCACCTGGTCCCGGATGCCCCACACCTGGACAG
 AGGCCACACTGACTGCCACCCAGCTGTGGCGGGAGGTGCAGAGCAGAGGGCTTTAGGGA
 GCAGTACTGCGTCCACCCCTTAGTTCTCTGGGTGTAGACCACACCACCTCCACTGGG
 CACCCCCAACACGGTGTCTGCCACCCAGCGCCTGGCTCCAGGAAAACACGCTTGCCTT
 CCTTCCCGGCGAGTTCGCCACTCTCTTATGGACTCTGTTCTGTTGTACATGGCTGACG
 GAAATCTCTTTGTACAACCGAATAAAGCCTGGTGGCAGTGCTGAAAAAAAAAAAAAAAA
 AA

Restriction Sites: Please inquire

ACCN: NM_002861

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_002861.1](#), [NP_002852.1](#)

RefSeq Size: 1856 bp

RefSeq ORF: 1170 bp

Locus ID: 5833

UniProt ID: [Q99447](#)

Cytogenetics: 17q25.3

Domains: CTP_transf_2

Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways

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 (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.
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.