

Product datasheet for **RC237367**

PCYT2 (NM_001282203) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PCYT2 (NM_001282203) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: PCYT2
Synonyms: ET; SPG82
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC237367 representing NM_001282203
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGGTGCAGGCCATCAAATGGGTGGACGAGGTGGTGCCAGCGGCTCCCTACGTCACTACACTAGAGACCC
TGGACAAATACAACCTGTGACTTCTGTGTTACGGCAATGACATCACCCCTGACTGTAGATGGCCGGGACAC
CTATGAGGAAGTAAAGCAGGCTGGGAGGTACAGAGAATGCAAGCGCACGCAAGGGGTGTCCACCACAGAC
CTCGTGGGCCGCATGCTGCTGGTAACCAAAGCCCATCACAGCAGCCAGGAGATGTCTCTGAGTACCGGG
AGTATGCAGACAGTTTTGGCAAGTGCCTGGTGGGCGGAACCCCTGGACCGGGGTATCCCAGTTCCTGCA
GACATCTCAGAAGATCATCCAGTTTGTCTTGGGAAGGAGCCCCAGCCAGGGGAGACAGTCATCTATGTG
GCTGGTGCCTTCGACCTGTTCCACATCGGGCATGTGGACTTCTGGAGAAGGTGCACAGGCTGGCAGAGA
GGCCCTACATCATCGCGGGCTTACACTTTGACCAGGAGGTCAATCACTACAAGGGGAAGAACTACCCCAT
CATGAATCTGCATGAACGGACTCTGAGCGTGTGGCCTGCCGGTACGTGTGAGAAGTGGTGATTGGAGCC
CCGTACGCGGTCACAGCAGAGCTCCTAAGTCACCTCAAGGTGGACCTGGTGTGTCACGGCAAGACAGAAA
TTATCCCTGACAGGGATGGCTCCGACCCATACCGAGGCCAAGAGAAGGGGCATCTTCCGTGAGATTGA
CAGTGGCAGCAACCTCACACAGACCTCATCGTCCAGCGGATCATCACCAACAGGTTGGAGTATGAGGCG
CGAAACCAGAAGAAGGAAGCCAAGGAGCTGGCCTTCTGGAGGCTGCCAGGCAGCAGCGGCACAGCCCC
TGGGGGAGCGGATGGTGACTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC237367 representing NM_001282203
 Red=Cloning site Green=Tags(s)

MVQAIKWDEVVPAAPYVTTLETLDKYNCDFCVHGNDITLTVDGRDYEYEVKQAGRYRECKRTQGVSTTD
 LVGRMLLVTKAHSSQEMSSEYREYADSF GKCPGGRNPWTGVSQFLQTSQKIIQFASGKEPQPGETVIYV
 AGAFDLFHIGHVDFLEKVHRLAERPYYIAGLHFDQEVNHYKGNYPIMNLHERTLSVLACRYVSEVVIGA
 PYAVTAELLSHFKVDLVCHGKTEIIPDRDGDSDPYQEPKRRGIFRQIDSGSNLTTDLIVQRIITNRLEYEA
 RNQKKEAKELAFLEAARQQAQPLGERDGF

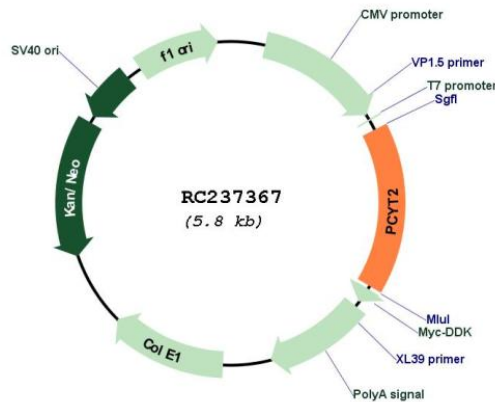
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001282203

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:	<ol style="list-style-type: none">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_001282203.2
RefSeq Size:	3653 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]