

Product datasheet for MR206346

Pcyt2 (NM_024229) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcyt2 (NM_024229) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcyt2
Synonyms:	1110033E03Rik; ET
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206346 representing NM_024229 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCGGAACGGGCACGGGGCTGCCAGCGCTGCTGGGCTGAAGGGTCCGGGAGATCAGCGCATCGTGC
GGGTGTGGTGGCATGGTCTATGACATGGTGCATTATGGCCACTCCAACCAGCTACGGCAGGCACGGGC
CATGGGGACTACCTCATCGTGGGTGTGCATACGGATGAGGAGATTGCCAAGCATAAGGGGCCCCCGGTG
TTTACCCAGGAGAGAGGTACAAGATGGTACAGGCCATCAAGTGGGTGGATGAGGTGGTCCCGCTGCTC
CCTACGTCACCACCTGGAGACTGGACAAGCACAAGTGTGACTTCTGTGTTACAGGCAATGACATCAC
GCTGACAGTAGACGGCCGAGACCTATGAGGAAGTGAAGCAGGCTGGGAGGTACAGAGAGTGCAAACGC
ACCCAGGGTGTGTCCACCACAGACCTCGTGGGTGCGATGCTGCTGGTGACCAAGGCCATCACAGAGCC
AGGAGATGTCTCTGAGTACCGGAATATGCTGACAGTTTTGGAAAGCCCCCTCACCCGACACCTGCCGG
GGACACACTTTCCTCAGAAGTCTCCTCCAGTGCCTGGGGGCAGAGCCCTGGACAGGGGTGTCCAG
TTTCTACAGACATCCCAGAAGATCATCCAGTTTGTCTTGGGAAGGAGCCCCAGCCCGGGGAGACGGTCA
TCTATGTGGTGGTGCCTTTGACCTGTTCCACATCGGGCAGTGGACTTCTACAGGAGGTGCACAAGCT
AGCCAAGAGGCCCTACGTCATCGCCGGCCTACACTTTGACCAGGAAGTAAACCGGTACAAGGGCAAGAAC
TACCCATCATGAACCTGCACGAGCGGACTCTCAGTGTGCTGGCCTGCCGTATGTTTCAGAAGTGGTGA
TTGGGGCACCATACTCCGTGACAGCGGAGCTCCTGAATCACTTCAAGGTGGACCTGGTGTGTCACGGGAA
GACAGAGATTGTACCCGACAGGGATGGGTCTGACCCCTACCAGGAGCCCAAGAGAAGAGGCATCTTCTAT
CAGATTGACAGTGGCAGTGCCTCACTACAGACCTGATTGTGCAGAGGATCATCAAGAACAGGCTGGAGT
ATGAAGCACGGAATCAGAAGAAAGAAGCCAAGGAATTAGCCTTTCTGGAGGCCACGAAGCAGCAGGAGGC
GCCGCTGGAGGGGAGATTGAC

ACGGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR206346 representing NM_024229
 Red=Cloning site Green=Tags(s)

MIRNGHGAASAAGLKPGDQRIVRVWCDGDCYDMVHYGHSNQLRQARAMGDYLIVGVHTDEEIAKHKGPPV
 FTQEERYKMVQAIKWVDEVVPAAPYVTTLETLDKHNCDFCVHGNDITLTVDGRDTYEEVKQAGRYRECKR
 TQGVSTTDLVGRMLLVTKAHSSQEMSSEYREYADSFQKPPHPTPAGDTLSSEVSSQCPGGQSPWTGVSQ
 FLQTSQKIIQFASGKEPQPGETVIYVAGAFDLFHIGHVDFLQEVHKLAKRPYVIAGLHFDQEVNRYKGN
 YPIMNLHERTSLVACRYVSEVVI GAPYSVTAELLNHFVLDLVCHGKTEIVPDRDSDPYQEPKRRGIFY
 QIDSGSDLTTDLIVQRIKRNLEYEARNQKKEAKELAFLEATKQEQEAPPGGEID

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_024229

ORF Size: 1212 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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_024229.3](#)

RefSeq Size: 1908 bp

RefSeq ORF: 1215 bp

Locus ID: 68671

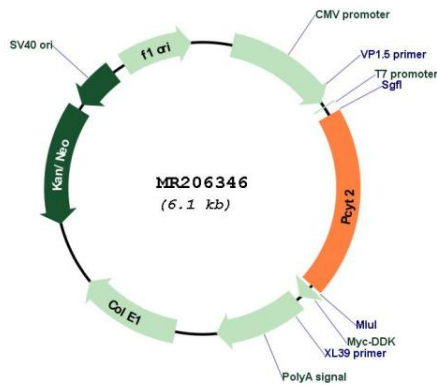
UniProt ID: [Q922E4](#)

Cytogenetics: 11 E2

MW: 45.7 kDa

Gene Summary: Plays an important role in the biosynthesis of the phospholipid phosphatidylethanolamine. Catalyzes the formation of CDP-ethanolamine (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR206346