

Product datasheet for **RR202400**

Pcyt2 (NM_053568) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Pcyt2 (NM_053568) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcyt2
Synonyms:	ET
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>RR202400 representing NM_053568 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCCGGAACGGGCACGGGGCTGGCGGCGTCTGGGCTGAAGGGTCCGGGCGCCAGCGCACCGTG
GGGTGTGGTGCATGGCTGCTATGACATGGTGCATTACGGCCACTCCAACCAGCTACGCCAGGCGCGGG
CATGGGGACTACCTCATTGTGGCGTGCATACTGACGAGGAGATTGCCAAGCATAAGGGGCCCCCGGT
TTTACCCAGGAGGAGCGGTACAAGATGGTACAGGCCATCAAGTGGTGGATGAAGTGGTACCGGCTGCTC
CCTACGTCACCACACTGGAGACACTGGACAAGCACAACCTGTGACTTCTGCGTTTATGGCAATGACATCAC
GCTGACAGTAGATGGCCGAGATACCTACGAGGAAGTGAAGCAGGCTGGGAGGTACAGAGAGTGCAAACGC
ACCCAGGGTGTGCCACCACAGACCTCGTGGTGCATGCTGCTGGTACCAAGGCCACCATAGCAGCC
AGGAGATGTCTCTGAGTACCGGAATATGCTGACAGTTTTGGCAAGCCCCTCACCCGACACCTGCCGG
GGACACACTTTCCTCAGAAGTCTCTCCAGTGCCTGGGGGCAGAGCCCCTGGACAGGGGTGTCCAG
TTCCTACAGACATCCCAGAAGATCATCCAGTTTGCTTCTGGGAAGGAGCCCCAGCCCAGGGGAGACAGTCA
TCTATGTGGTGGTGCCTTTGACCTGTTCCACATCGGGCAGTGGACTTCTACAGGAGGTGCACAAGCT
AGCCAAGAGGCCCTACGTCATCGCGGGCTACACTTTGACCAGGAAGTAAACCGGTACAAGGGCAAGAAC
TACCCCATCATGAACCTGCATGAGCGGACTCTCAGTGTGCTGGCCTGCCGTATGTTTCAGAAGTGGTGA
TTGGGGCACCCTACTCCGTCACAGCAGAGCTCCTGAATCATTTCAAGGTGGACCTGGTGTGTCATGGGAA
GACAGAAATTGTACCCGACAGGGATGGGTCTGACCCTACGAGGAGCCCAAGAGAAGAGGCAATTTCTGT
CAGATTGACAGTGGCAGTGACCTCACTACAGACCTGATTGTGCAAAGGATCATCAAGAACAGGTTGGAGT
ACGAAGCAGGAATCAGAAGAAGGAAGCCAAGGAATTAGCCTTTTGGAGGCCCTGAGGCAGCAGGAGGC
ACAGCCCAGAGGGGAGACTGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR202400 representing NM_053568
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MIRNNGHAGGAAGLKGPGGQRTVRVWCDGCDMVIHYGHSNQLRQARAMGDYLIIVGVHTDEEIAKHKGPPV
 FTQEERYKMVQAIKWVDEVVPAAPYVTTLETLDKHNCDFCVHGNIDITLTVDGRDYEYEVKQAGRYRECKR
 TQGVSTTDLVGRMLLVTKAHSSQEMSSEYREYADSFQKPPHPTPAGDTLSSEVSSQCPGGQSPWTGVSQ
 FLQTSQKI IQFASGKEPQPGETVIYVAGAFDLFHIHGVDFLQEVHKLAKRPYVIAGLHFDQEVNRYKGN
 YPIMNLHERTSLVACRYVSEVVI GAPYSVTAELLNHFVKVDLVCHGKTEIVPDRDGDSDPYEEPKRRGIFC
 QIDSGDLTTDLIVQRIIKNRLEYEARNQKKEAKELAFLEALRQQEAQPRGETD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

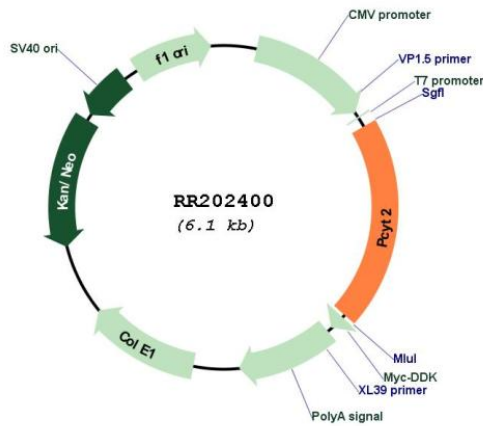
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_053568

ORF Size:	1212 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_053568.1 , NP_446020.1
RefSeq Size:	1846 bp
RefSeq ORF:	1215 bp
Locus ID:	89841
UniProt ID:	O88637
Cytogenetics:	10q32.3
MW:	45.2 kDa
Gene Summary:	plays a role in the CDP-ethanolamine pathway for phosphatidylethanolamine synthesis [RGD, Feb 2006]