

## Product datasheet for MR205644

### Pcyt1a (NM\_009981) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Pcyt1a (NM_009981) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Pcyt1a
Synonyms:	Cctalpha; CTalpha; Ctpct; Ctalpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR205644 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGATGCACAGAGTTCAGCTAAAGTCAATTCGAGGAAGAGGAGGAAAGAGGCACCTGGCCCTAATGGAG  
CAACAGAGGAAGATGGAATTCCTTCCAAAGTGCAGCGTTGCGCAGTTGGTTTACGGCAGCCAGCTCCTTT  
TTCTGATGAAATTGAAGTTGACTTTAGTAAGCCCTATGTCAGGGTACTATGGAAGAAGCCTGCAGGGGA  
ACTCCGTGTGAGCGGCCGTGAGAGTTTATGCGGATGGAATATTTGACTTGTTCCTACTCTGGTCATGCC  
GGGCTCTGATGCAAGCAAAGAACCTTTCCCTAATACGTATCTAATTGTGGGAGTCTGCAGTGATGAGCT  
AACGCACAACCTCAAGGGCTTCACTGTGATGAACGAGAATGAGCGCTATGACGCCGTGCAGCACTGCCGC  
TACGTGGACGAGGTGGTGCAGAACGCCCTGGACTCTGACGCCTGAGTTCTGGCAGAGCACCGGATTG  
ATTTTGTGCGCCATGACGACATCCCTATTCTTCTGCAGGGAGCGATGATGTGTATAAGCACATCAAGGA  
CGCAGGCATGTTTGTCCACACAGAGGACAGAAGGTAATCTCCACATCAGACATCATCACCCGATTGTC  
CGTGACTATGATGTGATGCAAGACGGAACCTACAGAGGGGTACACTGCCAAGGAGTCAATGTCAGCT  
TTATCAACGAGAAGAAATACCACTTGAAGAACGAGTTGATAAAGTAAAGAAGAAAGTGAAGATGTGA  
GAAAAGTCAAAAGAGTTTGTGCAGAAGGTGGAAGAGAAGAGCATCGACCTCATCCAGAAGTGGGAGGAG  
AAGTCCCGAGAGTTCATTGGAAGTTTCTGAAATGTTTGGTCCAGAAGGAGCACTGAAGCACATGCTGA  
AGGAGGGAAAAGTCCGGATGCTGCAGGCCATCAGTCCCAAGCAGAGCCCAAGCAGCAGCCCTACTCATGA  
GCGCTCCCCCTCCCTTCTCGGTGGCCCTTCTGGAAGACTTCCCATCTTCTCCCCAGCAAGT  
CTTTCTAGGTGCAGGGCTGTGACCTGTGACATCAGCGAGGATGAAGAGGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR205644 protein sequence  
Red=Cloning site Green=Tags(s)

MDAQSSAKVNSRKRKEAPGPNGATEEDGIPSKVQRCVGLRQPAPFSDIEVDFSKPYVVRTMEEACRG  
 TPCERPVRVYADGIFDLFHSGHARALMQAKNLFNPTYLIVGVCSDELTHNFKGFTVMNENERYDAVQHCR  
 YVDEVVRNAPWLTPEFLAEHRIDFVAHDDIPYSSAGSDDVYKHIKDAGMFAPTQRTEGISTSDIITRIV  
 RDYDVYARRNLQRGYTAKELNVSFINEKKYHLQERVVKVKKVKDVEEKSKEFVQKVEEKSIDLQKWEE  
 KSREFIGSFLEMFPEGALKHMLKEGKGRMLQATSPKQSPSSPHERSPSPSFRWPFSGKTPSSSPSPAS  
 LSRCAVTCDISSEDEED

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_009981

**ORF Size:** 1104 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:**

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\\_009981.4](#)

**RefSeq Size:** 4787 bp

**RefSeq ORF:** 1104 bp

**Locus ID:** 13026

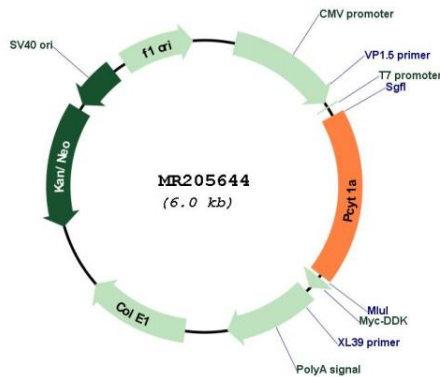
**UniProt ID:** [P49586](#)

**Cytogenetics:** 16 22.69 cM

**MW:** 41.7 kDa

**Gene Summary:** Controls phosphatidylcholine synthesis.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR205644