

## Product datasheet for **RR207888**

### **Pcyt1b (NM\_173151) Rat Tagged ORF Clone**

#### Product data:

|                           |                                                                             |
|---------------------------|-----------------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                                         |
| Product Name:             | Pcyt1b (NM_173151) Rat Tagged ORF Clone                                     |
| Tag:                      | Myc-DDK                                                                     |
| Symbol:                   | Pcyt1b                                                                      |
| Synonyms:                 | CCT-beta; Cctbeta; CTB                                                      |
| Mammalian Cell Selection: | Neomycin                                                                    |
| Vector:                   | pCMV6-Entry (PS100001)                                                      |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                                        |
| ORF Nucleotide Sequence:  | >RR207888 representing NM_173151<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAGTAGTTACCACTGATGCTGAGTCAGAAACAGGTATCCCAAAATCCCTTTCCAATGAGCCTCCCT  
CAGAAACCATGGAGGAAATAGAGCACACATGCCACAGCCTCGACTGACCCTGACTGCACCAGCCCCATT  
TGCCGATGAGTCCAGCTGCCAGTGCCAAGCGCCTCATGAAAACTGACCATTTGCTCAGGCCCGCTTAGGA  
ACTCCAGTTGACAGGCCCTGTTAGAGTATATGCAGACGGAATATTCGACCTCTTCCACTCAGGTCATGCAA  
GGGCATTATGCAAGCAAAAACCTGTTTCCCAACAGCTACTTGTGGTAGGAGTTTGCAGTGATGACCT  
AACTCACAAATCAAAGTTTTACTGTGATGAATGAGGCAGAGAGATATGAAGCTCTCAGACACTGTCCG  
TACGTGGACGAAGTCATCAGAGATGCACCATGGACTCTTACTCCAGAGTTTCTGGAAAAACAAGATTG  
ACTTTGTGGCTCACGATGACATTCGGTACTCATCTGCCGGTTCTGATGACGTTTATAAGCATATCAAGGA  
AGCAGGCATGTTTGTCCAACACAAGAAGCAGAAGGCATCTCAACATCAGACATCATCACCAGAATTGTC  
CGTGACTATGACGTATATGCCCGCGTAACTCCAGAGAGGGTACACAGCCAAGGAGCTGAATGTCAGCT  
TTATAAACGAGAAGAAGTACCGTTTCCAGAACCAGGTGGACAAGATGAAAGAAAAGGTCAAGAATGTGGA  
GAAAGATCAAAGGAATTTGTTAACAGAGTAGAAGAAAAGAGTCCAGACCTAATTCAAAAGTGGGAAGAA  
AAATCAAGAGAATTCATTGGCACTTCTAGAATTGTTTGGCCAGATGGTGCATGGAAGCAGATGTTCC  
AGGAGAGGAGTAGCCGGATGCTACAGGCCTTATCTCAAAGCAGAGTCCGTGAGCAGCCCGACCCGGAG  
CCGGTCCCCTTCCGCTCTCCATCTCCTACCTTCTCCTGGCTCCCAACAAGACCTCTCCCCTTCTCTCA  
CCCAAAGCAGCCTCAGCTCCATCAGCAGCATGAGTGAGGGGGATGAGGATGAGAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTAA



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**Protein Sequence:** >RR207888 representing NM\_173151  
 Red=Cloning site Green=Tags(s)

MPVVTDDAASETGIPKLSLNEPPSETMEEIEHTCPQPRLLTAPAPFADESSCQCQAPHEKLITIAQARLG  
 TPVDRPVRVYADGIFDLFHSGHARALMQAKTLFPNSYLLVGVCSDDLTHKFKGFTVMNEAERYEALRHCR  
 YVDEVIRDAPWLTPEFLEKHKIDFVAHDDIPYSSAGSDDVYKHIKEAGMFVPTQRTEGISTSDIITRIV  
 RDYDVYARRNLQRGYTAKELNVSFINEKKYRFQNVQVDMKEKVKVNEERSKEFVNRVEEKSHDLIQKWE  
 KSRREFIGNFLELFGPDGAWKQMFQERSRMLQALSPKQSPVSSPTRSRSPSRSPPTFSWLPNKTSPPSS  
 PKAASASISSMSEGDEDEK

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\_173151

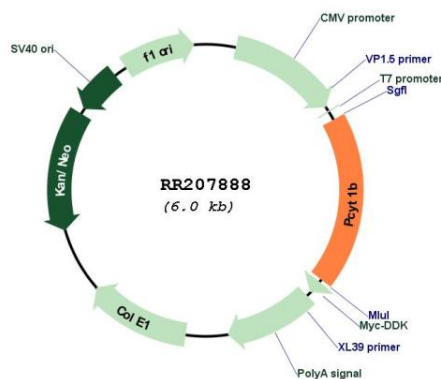
**ORF Size:** 1107 bp

**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](mailto: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.

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Components:</b>            | 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).                                                                                                                                                                                                                                                                                                                              |
| <b>Reconstitution Method:</b> | <ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol> |
| <b>RefSeq:</b>                | <u>NM_173151.1, NP_775174.1</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>RefSeq Size:</b>           | 1955 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>RefSeq ORF:</b>            | 1110 bp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Locus ID:</b>              | 286936                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>UniProt ID:</b>            | <u>Q9QZC4</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Cytogenetics:</b>          | Xq22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MW:</b>                    | 41.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Gene Summary:</b>          | Controls phosphatidylcholine synthesis.[UniProtKB/Swiss-Prot Function]                                                                                                                                                                                                                                                                                                                                                                                                                                            |

**Product images:**

Circular map for RR207888