

Product datasheet for **RG216978**

PCYT1B (NM_004845) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCYT1B (NM_004845) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	PCYT1B
Synonyms:	CCTB; CTB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG216978 representing NM_004845 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGTAGTTACCACTGATGCTGAGTCAGAAACAGGTATCCCAAAATCCCTTTCCAATGAGCCTCCCT
CAGAAACCATGGAGGAAATAGAGCACACATGCCACAGCCTCGACTGACCCTGACTGCACCTGCCCAT
TGCTGATGAAACCACTGCCAGTGTCAAGCACCCATGAAAACTGACCATTGCTCAGGCCCGCTTAGGA
ACACCAGCTGACAGGCCGTGTCAGAGTACGCCGATGGAATATTTGACCTCTTCCACTCAGGTCATGCAA
GAGCCCTTATGCAAGCAAAACACTGTTTCCCAACAGCTACTTGTGGTAGGAGTTTGCAGTGATGATCT
CACCCACAAATCAAAGTTTCACCGTATGAATGAAGCCGAGAGATACGAAGCTCTCAGACACTGTCCG
TACGTAGACGAAGTTATCAGAGATGCTCCCTGGCACTCACGCCAGAGTTTCTGGAAAAACAAGATTG
ACTTTGTGGCTCATGATGACATTCCTGATTCCTCTGCTGGCTCTGATGATGTTTACAAGCACATAAAGGA
AGCAGGGATGTTTCCTCAACGCAGAGAACAGAAGGCATCTCAACATCGGACATCATTACCAGAATTGTT
CGTGACTATGATGTTTATGCCCGACGTAACTCCAGAGAGGGTATACAGCCAAGGAAGTGAATGTGACGT
TTATAAATGAGAAGAGGTACCGTTTCCAGAACCAAGTGGACAAAATGAAGGAAAAAGTCAAGAATGTGGA
GAAAGATCAAAGGAATTTGTGAACAGAGTGAAGAAAAGAGCCATGATCTAATTCAAAAGTGGGAAGAG
AAGTCAAGGGAATTCATTGGCACTTCTAGAACTGTTTGGACCTGATGGAGCATGGAAGCAGATGTTCC
AGGAGAGGAGCAGCCGGATGCTGCAGGCCCTTATCCCCGAAGCAGAGCCCTGTGAGCAGCCCAACCCGGAG
CCGGTCCCTTCCCGCTCCCATCGCCACCTTCTCATGGCTTCCACTCAAAACCTCACCCCTTCTCTCA
CCCAAAGCAGCCTCAGCCTCTATCAGCAGCATGAGCGAGGGGGATGAGGATGAAAAG

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG216978 representing NM_004845
 Red=Cloning site Green=Tags(s)

MPVVTDAESETGIPKSLSNPPSETMEEIEHTCPQPRLLTAPAPFADETNCQCQAPHEKLTIAQARLG
 TPADRPVRYADGIFDLFHSGHARALMQAKTLFPNSYLLVGVCSDDLTHKFKGFTVMNEAERYEALRHCR
 YVDEVIRDAPWLTPEFLEKHKIDFVAHDDIPYSSAGSDDVYKHIKEAGMFVPTQRTEGISTSDIITRIV
 RDYDVYARRNLQRGYTAKELNVSFINEKRYRFQNVQDKMKEKVKVNEERSKEFVNRVEEKSHDLIQKWE
 KSRFIGNLELFGPDGAWKQMFQERSRMLQALSPKQSPVSSPTRSRSPSRSPPTFSWLPLKTSPPSS
 PKAASASISSMSEGDEDEK

TRTRPLE - GFP Tag - V

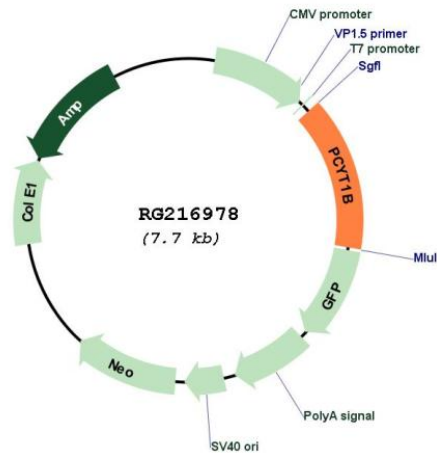
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_004845

ORF Size:	1107 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_004845.5
RefSeq Size:	5447 bp
RefSeq ORF:	1110 bp
Locus ID:	9468
UniProt ID:	Q9Y5K3
Cytogenetics:	Xp22.11
Domains:	CTP_transf_2
Protein Families:	Stem cell - Pluripotency
Protein Pathways:	Glycerophospholipid metabolism, Metabolic pathways
Gene Summary:	The protein encoded by this gene belongs to the cytidyltransferase family. It is involved in the regulation of phosphatidylcholine biosynthesis. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2009]