

Product datasheet for **RG228261**

PCYT1B (NM_001163265) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	PCYT1B (NM_001163265) 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:	>RG228261 representing NM_001163265 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGTAGTTACCACTGATGCTGAGTCAGAAACAGGTATCCCAAAATCCCTTTCCAATGAGCCTCCCT
CAGAAACCATGGAGGAAATAGAGCACACATGCCACAGCCTCGACTGACCCTGACTGCACCTGCCCAT
TGCTGATGAAACCAACTGCCAGTGTCAAGCACCCATGAAAACTGACCATTGCTCAGGCCCGCTTAGGA
ACACCAGCTGACAGGCCGTGTCAGAGTACGCCGATGGAATATTTGACCTCTTCCACTCAGGTCATGCAA
GAGCCCTTATGCAAGCAAAAACACTGTTTCCCAACAGCTACTTGTGGTAGGAGTTTGCAGTGATGATCT
CACCCACAAATCAAAGTTTCACCGTGATGAATGAAGCCGAGAGATACGAAGCTCTCAGACACTGTCCG
TACGTAGACGAAGTTATCAGAGATGCTCCCTGGACACTCACGCCAGAGTTTCTGGAAAAACAAGATTG
ACTTTGTGGCTCATGATGACATTCGGTATTCTCTGCTGGCTCTGATGATGTTTACAAGCACATAAAGGA
AGCAGGGATGTTTCCTCAACGCAGAGAACAGAAGGCATCTCAACATCGGACATCATTACCAGAATTGTT
CGTGACTATGATGTTTATGCCCGACGTAACTCCAGAGAGGGTATACAGCCAAGGAACTGAATGTCAGCT
TTATAAATGAGAAGAGGTACCGTTTCCAGAACCAAGTGGACAAAAAGGAAAGTCAAGAATGTGGA
GGAAAGATCAAAGGAATTTGTGAACAGAGTGGAAAGAAAGAGCCATGATCTAATTCAAAAGTGGGAAGAG
AAGTCAAGGGAATTCATTGGCAACTTCTAGAAGTGTGGACCTGATGGAGCATGGAAGCAGATGTTCC
AGGAGAGGAGCAGCCGGATGCTGCAGGCCTTATCCCGAAGCAGAGCCCTCTGAAGAGTTGGCGAGGTG
CAGAGACTTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG228261 representing NM_001163265
Red=Cloning site Green=Tags(s)

MPVVTDAESETGIPKSLSNPPSETMEEIEHTCPQPRLLTAPAPFADETNCQCQAPHEKLTIAQARLG
 TPADRPVRVYADGIFDLFHSGHARALMQAKTLFPNSYLLVGVCSDDLTHKFKGFTVMNEAERYEALRHCR
 YVDEVIRDAPWLTPEFLEKHKIDFVAHDDIPYSSAGSDDVYKHIKEAGMFVPTQRTEGISTSDIITRIV
 RDYDVYARRNLQRGYTAKELNVSFINEKRYRFQNVQVDMKEKVKVNEERSKEFVNRVEEKSHDLIQKWE
 KSREFIGNFLELFGPDGAWKQMFQERSRMLQALSPKQSPKSWARCRDF

TRTRPLE - GFP Tag - V

Restriction Sites:

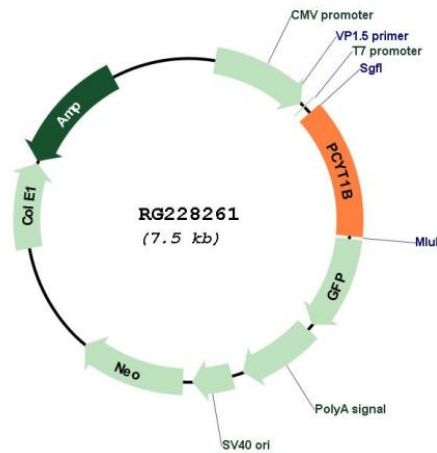
SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_001163265

ORF Size: 990 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_001163265.2
RefSeq Size:	5239 bp
RefSeq ORF:	993 bp
Locus ID:	9468
UniProt ID:	Q9Y5K3
Cytogenetics:	Xp22.11
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]