

Product datasheet for **RG208130**

PCYT1A (NM_005017) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: PCYT1A (NM_005017) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: PCYT1A
Synonyms: CCTA; CCTalpha; CT; CTA; CTPCT; PCYT1; SMDCRD
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG208130 representing NM_005017
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**C

ATGGATGCACAGTGTTCAGCCAAGGTCAATGCAAGGAAGAGGAGAAAAGAGGGCCCGGACCCAACGGGG
 CAACAGAAGAAGATGGGGTTCCTTCCAAAGTGCAGCGCTGTGCAGTGGGCTTACGGCAACCAGCTCCTTT
 TTCTGATGAAATTGAAGTTGACTTTAGTAAGCCCTATGTCAGGGTAACTATGGAAGAAGCCAGCAGAGGA
 ACTCCTTGTGAGCGACCTGTGAGAGTTTATGCCGATGGAATATTTGACTTATTTCACTCTGGTCACGCC
 GAGCTCTGATGCAAGCGAAGAACCTTTCCCTAATACGTACCTCATTGTGGGAGTTTGCAGTGATGAGCT
 CACACACAACCTCAAAGGCTTACGGTATGAACGAGAATGAGCGCTATGACGCAGTCCAGCACTGCCGC
 TACGTGGATGAGGTGGTGAAGATGCGCCCTGGACGCTGACACCCGAGTTCTGGCCGAACACCGGATTG
 ATTTTGTAGCCATGATGATATTCCTTATTCATCTGCTGGCAGTGATGATGTTTATAAGCACATCAAGGA
 GGCAGGCATGTTTGTCCAACACAGAGGACAGAAGGTATCTCCACATCAGACATCATCACCCGAATTGTG
 CGGATTATGATGTGATGCGAGGCGGAACCTGCAGAGGGGTACACAGCAAAGGAGCTCAATGTCAGCT
 TTATCAACGAGAAGAAAACCACTTGCAGGAGAGGGTTGACAAAGTAAAGAAGAAAGTAAAAGATGTGGA
 GAAAAAGTCAAAAGAATTTGTTCAAGAGTGGAGGAAAAAAGCATTGACCTCATTGAGAGTGGGAGGAG
 AAGTCCCGAGAATTCATTGGAAGTTTTCTGAAATGTTTGGTCCGGAAGGAGCACTGAAACATATGCTGA
 AAGAGGGGAAGGCCGGATGCTGCAGGCCATCAGCCCGAAGCAGAGCCCAAGCAGCAGCCCTACTCGCGA
 GCGCTCCCCCTCCCTCTTTCCGATGGCCCTTCCGGCAAGACTTCCCACTTGGCTCCCCAGCAAAT
 CTCTCCAGGCACAAGGCTGCAGCCTATGATATCAGTGAGGATGAAGAAGAC

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG208130 representing NM_005017
 Red=Cloning site Green=Tags(s)

MDAQCSAKVNARKRRKEAPGPNGATEEDGVPSKVQRCAVGLRQPAPFSDEIEVDFSKPYVVRTMEEASRG
 TPCERPVRVYADGIFDLFHSGHARALMQAKNLFNPTYLIVGVCSDELTHNFKGFTVMNENERYDAVQHCN
 YVDEVVRNAPWLTPEFLAEHRIDFVAHDDIPYSSAGSDDVYKHIKEAGMFAPTQRTEGISTSDIITRIV
 RDYDVYARRNLQRGYTAKELNVSFINEKYYHLQERVVKVKKVKDVEEKSKEFVQKVEEKSIDLIOKWEE
 KSREFIGSFLEMFGPEGALKHMLKEGKGRMLQAI SPKQSPSSPTRERSPPSPFRWPFSGKTSPPCSPAN
 LSRHKAAAYDISEDEED

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005017

ORF Size: 1101 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_005017.4](#)

RefSeq Size: 1677 bp

RefSeq ORF: 1104 bp

Locus ID: 5130

UniProt ID: [P49585](#)

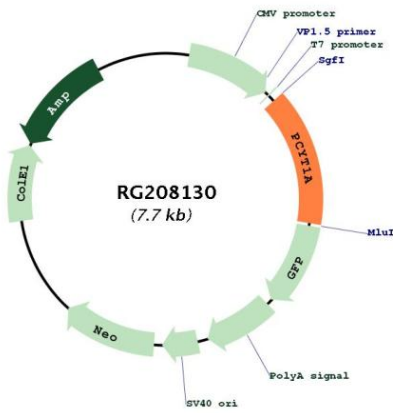
Cytogenetics: 3q29

Domains: CTP_transf_2

Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways

Gene Summary: This gene belongs to the cytidyltransferase family and is involved in the regulation of phosphatidylcholine biosynthesis. Mutations in this gene are associated with spondylometaphyseal dysplasia with cone-rod dystrophy. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Aug 2015]

Product images:



Circular map for RG208130