

## Product datasheet for SC117010

### PCYT1A (NM\_005017) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	PCYT1A (NM_005017) Human Untagged Clone
Tag:	Tag Free
Symbol:	PCYT1A
Synonyms:	CCTA; CCTalpha; CT; CTA; CTPCT; PCYT1; SMDCRD
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC117010 sequence for NM_005017 edited (data generated by NextGen Sequencing)

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ATGGATGCACAGTGTTCAGCCAAGTCAATGCAAGGAAGAGGAGAAAAGAGGCGCCCGGA
CCCAACGGGGCAACAGAAGAAGATGGGGTTCCTTCCAAAGTGCAGCGCTGTGCAGTGGGC
TTACGGCAACCAGCTCCTTTTTCTGATGAAATTGAAGTTGACTTTAGTAAGCCCTATGTC
AGGGTAACTATGGAAGAAGCCAGCAGAGGAACTCCTTGTGAGCGACCTGTGAGAGTTTAT
GCCGATGGAATATTTGACTTATTTCACTCTGGTCACGCCCGAGCTCTGATGCAAGCGAAG
AACCTTTCCCTAATACGTACCTCATTGTGGGAGTTTGCAGTGATGAGCTCACACACAAC
TTCAAAGGCTTACGGTGATGAACGAGAATGAGCGCTATGACGCAGTCCAGCACTGCCGC
TACGTGGATGAGGTGGTGAAGGATGCGCCCTGGACGCTGACACCCGAGTTCCTGGCCGAA
CACCGGATTGATTTGTAGCCCATGATGATATTCCTTATTCATCTGCTGGCAGTGATGAT
GTTTATAAGCACATCAAGGAGGCAGGCATGTTTGTCTCAACACAGAGGACAGAAGGTATC
TCCACATCAGACATCATACCCGAATTGTGCGGGATTATGATGTGTATGCGAGGCGGAAC
CTGCAGAGGGGCTACACAGCAAAGGAGCTCAATGTGAGCTTTATCAACGAGAAGAATAC
CACTTGCAGGAGAGGGTTGACAAAGTAAAGAAGAAAGTAAAGATGTGGAGGAAAAGTCA
AAAGAATTTGTTGAGAAGGTGGAGGAAAAAGCATTGACCTATTCAGAAGTGGGAGGAG
AAGTCCCGAGAATTCATTGGAAGTTTTCTGAAATGTTTGGTCCGGAAGGAGCACTGAAA
CATATGCTGAAAGAGGGGAAGGGCCGGATGCTGCAGGCCATCAGCCCGAAGCAGAGCCCC
AGCAGCAGCCCTACTCGCGAGCGCTCCCCCTCCCCCTTTCCGATGGCCCTTCTCCGGC
AAGACTTCCCCACCTTGCTCCCCAGCAAATCTCTCCAGGACAAGGCTGCAGCCTATGAT
ATCAGTGAGGATGAAGAAGACTAA

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Clone variation with respect to NM\_005017.2



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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_005017 unedited NGGTTAGGTTTTGTATACGACTTACTATAGGGCGGCCGCGAATTCGCACGAGGGCTCAAC TTTCCCTAGTCAGTGACGCGGCCGCGCCAGAAATCCGACCGGACCGGGCTCGGGGGAGC GTGAGTTGCAGTTAAAAGAAGATGGATGCACAGTGTTAGCCAAGGTCAATGCAAGGAAG AGGAGAAAAGAGGCGCCCGACCCAACGGGGCAACAGAAGAAGATGGGGTTCCTTCCAAA GTGCAGCGCTGTGCAGTGGGCTTACGGCAACCAGCTCCTTTTTCTGATGAAATTGAAGTT GACTTTAGTAAGCCCTATGTCAGGGTAACACTATGGAAGAAGCCAGCAGAGGAACTCCTTGT GAGCGACCTGTGAGAGTTTATGCCGATGGAATATTTGACTTATTTCACTCTGGTCACGCC CGAGCTCTGATGCAAGCGAAGAACCTTTTCCCTAATACGTACCTCATTGTGGGAGACTTT TTTCCAGTTGGGGAAGATGGTTGCAGTCCTAAGCAGTGGGAGAAGATGGGAGAGGTCGGT GGCTGAGGAGGTGCTAAGCAAAGAGGACTCCAACACACAATTTATGATGTGGTGAACCAG TTTGCAGTGATGAGCTCACACAACTTCAAAGGCTTACGGTGATGAACGAGAATGAGC GCTATGACGCAGTCCAGCACTGCCGCTACGTGGATGAGGTGGTGAGGAATGCGCCCTGGA CGCTGACACCCGAGTTCCTGGCCGAACACCGGATTGATTTGTAGCCCATGATGATATTC CTTATTCATCTGCTGGCAGTGATGATGTTATAAGCACATCANGGAGCAGGCCTGTTTGCT TCACACAGAGACAGAAGGATCTCCACATAGACTCATACCCGAATGTGCGGATATGATGTG ATGCGAGCCGGACTGCAGAGGGGTACCAGAAG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_005017
<b>Insert Size:</b>	3570 bp
<b>OTI Disclaimer:</b>	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
<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>	<a href="#">NM_005017.2</a> , <a href="#">NP_005008.2</a>
<b>RefSeq Size:</b>	1677 bp
<b>RefSeq ORF:</b>	1104 bp
<b>Locus ID:</b>	5130
<b>UniProt ID:</b>	<a href="#">P49585</a>
<b>Cytogenetics:</b>	3q29
<b>Domains:</b>	CTP_transf_2
<b>Protein Pathways:</b>	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]

Transcript Variant: This variant (1) represents the longer transcript. Variants 1 and 2 encode the same protein.