

Product datasheet for **RN212387**

Ctp (NM_001007703) Rat Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctp (NM_001007703) Rat Untagged Clone
Tag:	Tag Free
Symbol:	Ctp
Synonyms:	Gltpd1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>RN212387 representing NM_001007703 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGC**

ATGGATGGCCAGAGAGAGATTCAACCTTAAGGTTGCTCTGATCAGCTTCAAGAAGTGTCTCACTGACA
AGGGAGAGGTGCTGCTGGACCACTATACTGCCAGCTGGAAGGGGCTTGTCAAGTTTCTGAACAGCCTAGG
GGCTGTCTTTTCATTTCATCTCCAAGGATGTGGTCTCAAAGCTTCAGATTATGGAGCATCTGAGAAGTGGC
CCACAGTCTGAACACTACATTAGCTTGCAATCCATGGTAGCCTACGAGGTGAGCAACAAGCTGGTGGACA
GAGACAGCCGCTCACGTCCCGACACCCTAACTCAGGCTGCCGGACTGTGCTGCGCTACACCGTGTCTCT
GCATTGGCTACAGCTGTTCTGGAAGGCCTGCGCACCAGCTCTGAGGATGCTCGTACCTCCACCCTCTGC
AGTGAGGCCTACAATGCCACACTGGCTGCCTATCACTCCTGGATAGTACGTCAAGCTGTCAATGTGGCCT
TCCATGCCTTGCCCCACGCAAGGTCTTCTTGAGGCCATGAATATGGGGTCTCTGAGCAAGCAGTGGA
GATGCTGGGAGAGGCCCTGCCCTTCATTGAGCAAGTGTATGACATCTCCAGAAGCTCTATGCTGAACAT
TCCCTGCTAGACCTGCC**TAG**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001007703
Insert Size:	651 bp



[View online »](#)

OTI Disclaimer:	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).
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:	<u>NM_001007703.1</u> , <u>NP_001007704.1</u>
RefSeq Size:	1998 bp
RefSeq ORF:	651 bp
Locus ID:	313771
UniProt ID:	<u>Q5XIS2</u>
Cytogenetics:	5q36
Gene Summary:	Mediates the intracellular transfer of ceramide-1-phosphate (C1P) between organelle membranes and the cell membrane. Required for normal structure of the Golgi stacks. Can bind phosphoceramides with a variety of aliphatic chains, but has a preference for lipids with saturated C16:0 or monounsaturated C18:1 aliphatic chains, and is inefficient with phosphoceramides containing lignoceryl (C24:0). Plays a role in the regulation of the cellular levels of ceramide-1-phosphate, and thereby contributes to the regulation of phospholipase PLA2G4A activity and the release of arachidonic acid. Has no activity with galactosylceramide, lactosylceramide, sphingomyelin, phosphatidylcholine, phosphatidic acid and ceramide. C1P transfer is stimulated by phosphatidylserine in C1P source vesicles. Regulates autophagy, inflammasome mediated IL1B and IL18 processing, and pyroptosis, but not apoptosis. [UniProtKB/Swiss-Prot Function]