

## Product datasheet for **MG209211**

### Ctps (NM\_016748) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ctps (NM_016748) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ctps
Synonyms:	Ctps1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MG209211 representing NM\_016748  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAAGTACATTCTAGTTACTGGTGGTGTATATCAGGAATTGGAAAAGGAGTCATCGCCAGCAGTGTGG  
 GCACAATACTTAAATCATGTGGCTTACATGTAACATCAATTAAGATTGACCCCTATATTAACATTGATGC  
 AGGAACATTCTCTCCTTATGAACATGGAGAAGTCTTTGTGCTGGATGATGGTGGAGAAGTTGACCTTGAC  
 TTGGGAAATTATGAGCGATTCTTGATATCCGCTCACCAAGGACAATAATCTGACCACAGGGAAGATAT  
 ACCAGTACGTCATTAACAAGGAGCGCAAAGGGGATTACTTAGGGAAGACTGTCCAGGTTGTCCCTCACAT  
 CACTGATGCAATCCAAGAGTGGGTGATGAGACAGGCATTAATACCCGTAGACGAAGATGGCTTAGAACCT  
 CAAGTGTGTGTTATTGAGCTTGGTGGCACAGTGGGAGACATTGAAAGCATGCCCTTCATTGAGGCCCTCC  
 GCCAGTCCAGTCAAGGTCAAGAGGGAAAACCTTTGTAATATCCATGTCAGTCTGGTTCCTCAGCCAAG  
 TTCAACAGGGGAACAGAAGACAAAACCCACCCAGAACAGTGTTCGGGAACCTTAGAGGACTCGGGCTTCT  
 CCAGACTTAGTGGTGTGCAGGTGCTCAAATCCTCTTGACACATCTGTGAAAGAGAAAATATCAATGTTTT  
 GCCATGTGGAACCTGAACAAGTATCTGTGTTTATGATGTTTTATCCATCTACCGGTACCCCTGTGTT  
 AGAAGAGCAAGGGGTTGTAGACTACTTTCTTCGGAGACTTGACCTTCCTATTGAGAGACAGTCACGAAAAG  
 ATGCTGATGAAATGGAAAGAGATGGCAGACAGGTATGACCGCTTGTGGAGACCTGCTCGATCGCTCTTG  
 TGGGCAATACACCAAAATCTCAGACTCGTACCGCTCTGTCATTAAGCGCTAGAGCACTCTGCATTGGC  
 CATTAAACCACAAGCTGGAGATCAAGTACATCGATTCCACAGACCTGGAGCCAAGTACCCTGCAGGAAGAG  
 CCTGTGCGCTACCATGAGGCATGGCAGAAGCTCTGCAGTGTCTATGGAGTGTGGTTCCAGGAGGATTTG  
 GTGTTCCGGGAACAGAAGGAAAAATTCAGCAATTGCTTGGGCTCGGAAACAGAAGAAGCCTTTTTTGGG  
 TGTGTGCTTAGGAATGCAGCTAGCAGTGGTAGAATTTTCAAGAAATGTGCTGGGATGGCAAGATGCCAAT  
 TCTACAGAGTTTGACCCCAAGACTAGTACCCTGTGGTTATAGACATGCCAGAACATAACCTGGGCAAA  
 TGGGTGGAACCATGAGGCTGGGCAAGAGGAGAACCCTGTTCCAGACCAAGAACTCAGTCATGAGGAACT  
 CTATGGAGACACAGACTACTTGAAGAAAGGCACCGCCACCGATTTGAGGTGAACCCAGTCTGAAAAAG  
 TGCTTGAAGAGCAAGGCTTGAAGTTCGTTGGCCAAGATGTGGAAGGCGAGAGGATGGAGATCGTGGAGT  
 TGAAGATCATCCATTTTTTTGTTGGAGTGCAGTATCACCCGAGTTCCTGTCCAGGCCTATCAAGCCCTC  
 CCCACCCTACTTTGGCCTCCTCCTGGCCTCTGTGGGGCGGCTCCCACATTACCTCAGAAAGGTTGCCGG  
 CTCTCACCCAGGGACACTTACAGTGACAGAAGCGGGAGCAGCTCCCCGACTCGGAAATCACTGAACTCA  
 AGTTTCCATCAATAAGTCAGGAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>MG209211 representing NM\_016748  
 Red=Cloning site Green=Tags(s)

MKYILVTGGVISIGIGKGVIASSVGTILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFLDDGGEVDLD  
 LGNYERFLDIRLTKDNNLTTGKIYQYVINKERKGDYLGKTVQVPHITDAIQEWVMRQALIPVDEGLEP  
 QVCVIELGGTVGDIESMPFIEAFRQFQFKVRENFCNIHVSLVPQPSSTGEQKTKPTQNSVRELRLGLS  
 PDLVVCRCNSPLDTSVKEKISMFCHEVEQVICVHDVSSIYRVPLLEEQGVVDYFLRRLDLPIERQSRK  
 MLMKWKEMADRYDRLLETCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSTDLEPSTLQEE  
 PVRVYHEAWQKLCSAHGVLVPGGFGVRGTEGKIQAIAWARKQKKPFLGVCLGMQLAVVEFSRNVLQWQDAN  
 STEFDPKTSHPVVIDMPEHNPGQMGGMRLGKRRTLFQTKNSVMRKL YGDTDYLEERHRHFEVNPVLKK  
 CLEEQGLKFGVQDVEGERMEIVELEDHPFFVGVQYHPEFLSRPIKSPPPYFGLLLASVGRPLPHYLQKGC  
 LSPRDTYSDRSGSSSPDSEITELKFPSISQD

TRTRPLE - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_016748

ORF Size: 1773 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\\_016748.2](#), [NP\\_058028.2](#)

RefSeq Size: 2726 bp

RefSeq ORF: 1776 bp

Locus ID: 51797

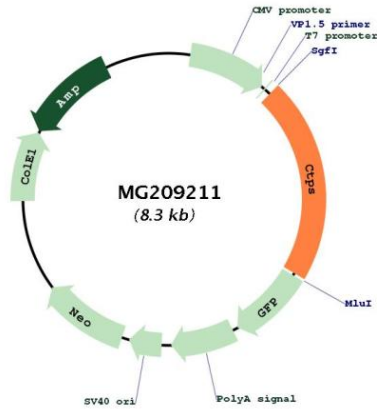
UniProt ID: [P70698](#)

Cytogenetics: 4 56.52 cM

**Gene Summary:**

This enzyme is involved in the de novo synthesis of CTP, a precursor of DNA, RNA and phospholipids. Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as a source of nitrogen. This enzyme and its product, CTP, play a crucial role in the proliferation of activated lymphocytes and therefore in immunity.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MG209211