

Product datasheet for **MR209211**

Ctps (NM_016748) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctps (NM_016748) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctps
Synonyms:	Ctps1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209211 representing NM_016748
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTACATTCTAGTTACTGGTGGTGTATATCAGGAATTGGAAAAGGAGTCATCGCCAGCAGTGTGG
 GCACAATACTTAAATCATGTGGCTTACATGTAACATCAATTAAGATTGACCCCTATATTAACATTGATGC
 AGGAACATTCTCTCCTTATGAACATGGAGAAGTCTTTGTGCTGGATGATGGTGGAGAAGTTGACCTTGAC
 TTGGGAAATTATGAGCGATTCTTGATATCCGCTCACCAAGGACAATAATCTGACCACAGGGAAGATAT
 ACCAGTACGTCATTAACAAGGAGCGCAAAGGGGATTACTTAGGGAAGACTGTCCAGGTTGTCCCTCACAT
 CACTGATGCAATCCAAGAGTGGGTGATGAGACAGGCATTAATACCCGTAGACGAAGATGGCTTAGAACCT
 CAAGTGTGTGTTATTGAGCTTGGTGGCACAGTGGGAGACATTGAAAGCATGCCCTTCATTGAGGCCCTCC
 GCCAGTCCAGTCAAGGTCAAGAGGGAAAACCTTTGTAATATCCATGTCAGTCTGGTCCCTCAGCCAAG
 TTCAACAGGGGAACAGAAGACAAAACCCACCCAGAACAGTGTTCGGGAACCTTAGAGGACTCGGGCTTTCT
 CCAGACTTAGTGGTGTGCAGGTGCTCAAATCCTCTTGACACATCTGTGAAAGAGAAAATATCAATGTTTT
 GCCATGTGGAACCTGAACAAGTATCTGTGTTTATGATGTTTTATCCATCTACCGGTACCCCTGTGTGT
 AGAAGAGCAAGGGGTTGTAGACTACTTTCTTCGGAGACTTGACCTTCCTATTGAGAGACAGTCACGAAAAG
 ATGCTGATGAAATGGAAAGAGATGGCAGACAGGTATGACCGCTTGTGGAGACCTGCTCGATCGCTCTTG
 TGGGCAATACACCAAAATCTCAGACTCGTACCGCTCTGTCATTAAGCGCTAGAGCACTCTGCATTGGC
 CATTAAACCACAAGCTGGAGATCAAGTACATCGATTCCACAGACCTGGAGCCAAGTACCCTGCAGGAAGAG
 CCTGTGCGCTACCATGAGGCATGGCAGAAGCTCTGCAGTGTCTATGGAGTGTGGTCCAGGAGGATTTG
 GTGTTTCGGGGAACAGAAGGAAAATTCAGCAATTGCTTGGGCTCGGAAACAGAAGAAGCCCTTTTTTGGG
 TGTGTGCTTAGGAATGCAGCTAGCAGTGGTAGAATTTTCAAGAAATGTGCTGGGATGGCAAGATGCCAAT
 TCTACAGAGTTTGACCCCAAGACTAGTACCCTGTGGTTATAGACATGCCAGAACATAACCTGGGCAAA
 TGGGTGGAACCATGAGGCTGGGCAAGAGGAGAACCCTGTTCCAGACCAAGAACTCAGTCATGAGGAACT
 CTATGGAGACACAGACTACTTGAAGAAAAGGCACCGCCACCGATTTGAGGTGAACCCAGTCTGAAAAAG
 TGCTTGAAGAGCAAGGCTTGAAGTTCGTTGGCCAAGATGTGGAAGGCGAGAGGATGGAGATCGTGGAGT
 TGAAGATCATCCATTTTTTGTGGAGTGCAGTATCACCCGAGTTCCTGTCCAGGCCTATCAAGCCCTC
 CCCACCCTACTTTGGCCTCCTCCTGGCCTCTGTGGGGCGGCTCCCACATTACCTTCAGAAAGGTTGCCGG
 CTCTCACCCAGGGACACTTACAGTGACAGAAGCGGGAGCAGTCCCCGACTCGGAAATCACTGAAGTCA
 AGTTTCCATCAATAAGTCAGGAC

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209211 representing NM_016748
 Red=Cloning site Green=Tags(s)

MKYILVTGGVISGIGKGVIASSVGTILKSCGLHVTSIKIDPYINIDAGTFSPYEHGEVFLDDGGEVDLD
 LGNYERFLDIRLTKDNNLTTGKIYQYVINKERKGDYLGKTVQVPHITDAIQEWVMRQALIPVDEGLEP
 QVCVIELGGTVGDIESMPFIEAFRQFQFKVRENFCNIHVSLVPQPSSTGEQKTKPTQNSVRELRLGLS
 PDLVVCRCNSPLDTSVKEKISMFCHEVEQVICVHDVSSIYRVPLLEEQGVVDYFLRRLDPIERQSRK
 MLMKWKEMADRYDRLLTCSIALVGKYTKFSDSYASVIKALEHSALAINHKLEIKYIDSTDLEPSTLQEE
 PVRYHEAWQKLCSAHGVLPGGFGVVRGTEGKIQAIAWARKQKPFLLGVLGMQLAVVEFSRNVLWQDAN
 STEFDPKTSHPVVIDMPEHNPQMGGTMRLLGKRRTLFQTKNSVMRKL YGDTDYLEERHRHREVNPLVKK
 CLEEQGLKFGVQDVEGERMEIVELEDHPFFVGVQYHPEFLSRPIKSPPYFGLLLASVGRPLPHYLQKGC
 LSPRDTYSDRSGSSSPDSEITELKFPSISQD

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9043_a05.zip

Restriction Sites: SgfI-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

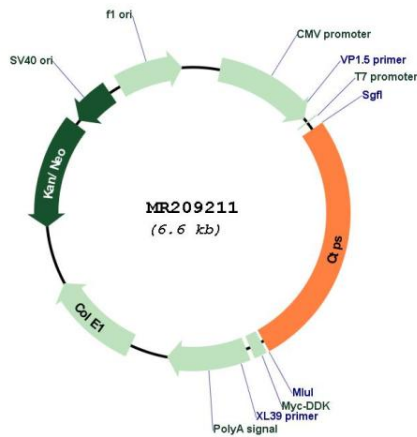
UniProt ID: [P70698](#)

Cytogenetics: 4 56.52 cM

MW: 67.1 kDa

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 MR209211