

Product datasheet for **RR207270**

Ctps2 (NM_001034998) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ctps2 (NM_001034998) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ctps2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR207270 representing NM_001034998
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGTATATCCTGGTTACTGGTGGGGTCATCTCAGGCATTGGTAAAGGGATCATCGCCAGCAGCATTG
 GGACCATTCTCAAGTCATGTGGACTCCGAGTAACCGCCATCAAGATCGACCCCTACATTAACATTGATGC
 TGGCACTTTCTCACCTTACGAACATGGTGAAGTATTTGTTTTAAATGATGGTGGAGAAGTTGATTTGGAC
 CTTGGAAATTATGAAAGATTCTTGGACATTAATCTTTATAAAGACAACAACATCACCAGTGGGAAGATAT
 ATCAGCATGTGATCAACAAAGAGAGGGCGGGTATTATCTGGGAAAACTGTCCAAGTGGTCCCCACAT
 TACTGATGCTATCCAAGACTGGTTATGAATCAAGCCAAGGTGTCTGTGGATGGCAATAAGGAAGATCCC
 CAGATATGTGTTATCGAGCTGGGAGGCACCATTGGAGACATCGAAGGGATGGCATTGTGGAAGCATTCC
 GACAATCCAGTTTAAAGCAAAGAGAGAGAATTTCTATAATTCATGTCAGCCTTGTGCCACAGCCAG
 TGCTACTGGAGAACAAAAACCAAGCCTACACAAAACAGTGTCCGTGCGCTGAGAGGGCTGGGCTTGTCT
 CCGGATCTGATTGTCTGCCGAAGTTCAACACCCATTGAGATGGCTGTGAAGGAGAAGATTTCTATGTTTT
 GTCACGTGAACCCCTGAACAGGTCATCTGTATCCATGATGTTTTCTCCATCTACCGAGTCCCTCTCTTTT
 GGAGGAGCAAGGTGTGGTTAAATATTTTCAAGAGAGATTGGACCTGCCATCAATGATTGCTCAAATAAT
 TTGCTTTTCAAGTGGAAAACCATGGCTGACAGGTATGAAAGATTGCAGAAAAATAGTTCCATAGCCCTGG
 TTGGTAAATACACAAAACCTCAGGACTGCTACGCCTCTGTGTTCAAAGCCCTGGAACACTCAGCCTTGGC
 CATCAACCACAAGTTGAATCTGATGTACATAGACTCCATTGATCTGGAGCCAGTCACCAAAGCTGAGGAT
 CCTGTGAAATCCATGAAGCTTGGCAGAAGCTGTGCTTAGCTGATGGTATTCTCGTGCCTGGAGGCTTTG
 GAATCCGAGGAACATTGGGAAAACCTCAGGCAATTTCTTGGCAAGGACAAAGAAGATTCATTCTGGG
 AATTTGCCTTGGGATGCAACTGGCAGTGATTGAGTTTGAAGAAACTGCCTGAACCTGAAAGATGCTAAT
 TCTACAGAATTTGATCCAAACACTCCAGTCCCATTGGTAATTGACATGCCTGAACACAACCTGGCGATT
 TGGGAGGAACAATGAGACTGGGATTAAGACGAAGTGTTCACAACTGAAAATCCATACTGAAGAAGCT
 TTACGGTGATGTTCCCTTACATAGAAGAAAGACACCGACATCGGTATGAGGTGAACCCTAACCTGATCAAC
 CAATTTGAGAATAAAGACCTTTGCTTTGTCGGTGAGGATGTGGATGGGAAGAGGATGGAGATTATTGAAT
 TGACAGGTCATCCATATTCATCGGCTCCAATCCATCCTGAGTTTTCTCTAGGCCAATGAAGCCTTC
 CCCTCCGTACCTGGGACTCTTACTTGCAGCAACCGGAACCTCTGAATACCCATCTGCAACAGATGAGCAA
 CTATCGTACAGTGACATATACAGTGATGCCAGTGATGATAGCTTTTTCAGAGGCGAAGTTTGTGAGCTGG
 ATATCAAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR207270 representing NM_001034998
 Red=Cloning site Green=Tags(s)

MKYILVTGGVISGIGKGIASSIGTILKSCGLRVTAIKIDPYINIDAGTFSPYEHGEVFLNDGGEVDLD
 LGNYERFLDINLYKDNITTGKIYQHVINKERRGDYLGKTVQVPHITDAIQDWVMNQAKVSVGDNKEDP
 QICVIELGGTIGDIEGMAFVEAFRQFQFKAKRENFYNIHVSLVPQPSATGEQKTKPTQNSVRALRGLGLS
 PDLIVCRSSTPIEMAVKEKISMFCNVNPEQVICIHDVSSIYRVPLLLLEEQGVVYFQERLDLPINDCSNN
 LLFKWKTADRYERLQKICSIALVGKYTKLRDCYASVFKALEHSALAINHKLNLMYIDSIDLEPVTKAED
 PVKFEAWQKLCADGILVPGGFIRGTLGKLQAI SWARTKKIPFLGICLGMQLAVIEFARNCLNLKDNAN
 STEFDPNTPVPLVIDMPEHNPGDLGGTMRLGLRRTVFTTENSILKLYGDVPYIEERHRHRYEVNPNLIN
 QFENKDLFCVGEDVDGKRMEIIELTGHPYFIGVQFHPEFSSRPMKPSPPYLGLLLAATGTLNTHLQQMSK
 LSYSDIYSDASDDSFSEAKFAELDIN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:


ACCN: NM_001034998

ORF Size: 1758 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_001034998.2](#), [NP_001030170.1](#)

RefSeq Size: 3272 bp

RefSeq ORF: 1761 bp

Locus ID: 619580

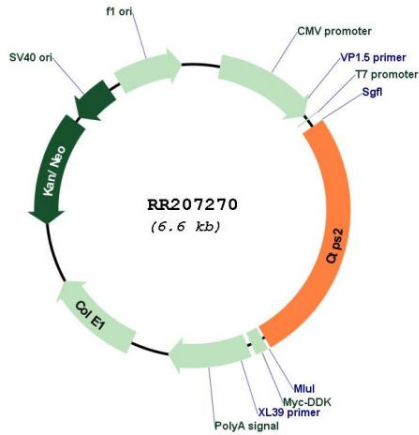
UniProt ID: [Q5U2N0](#)

Cytogenetics: Xq14

MW: 65.7 kDa

Gene Summary: Catalyzes the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as the source of nitrogen. Constitutes the rate-limiting enzyme in the synthesis of cytosine nucleotides (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RR207270